

Supplementary Material

Synthesis of some new 5-arylidene-2,4-thiazolidinedione esters

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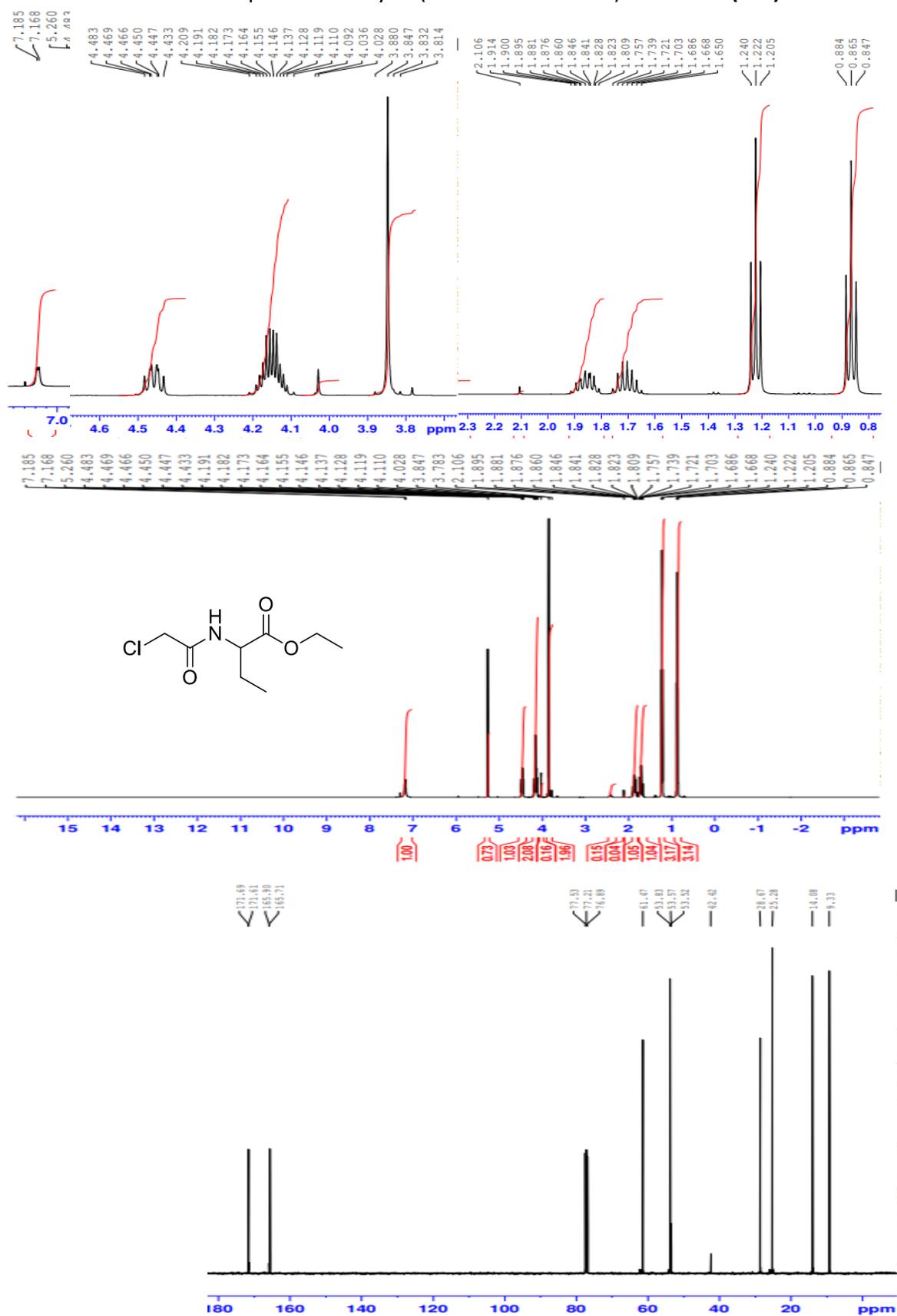
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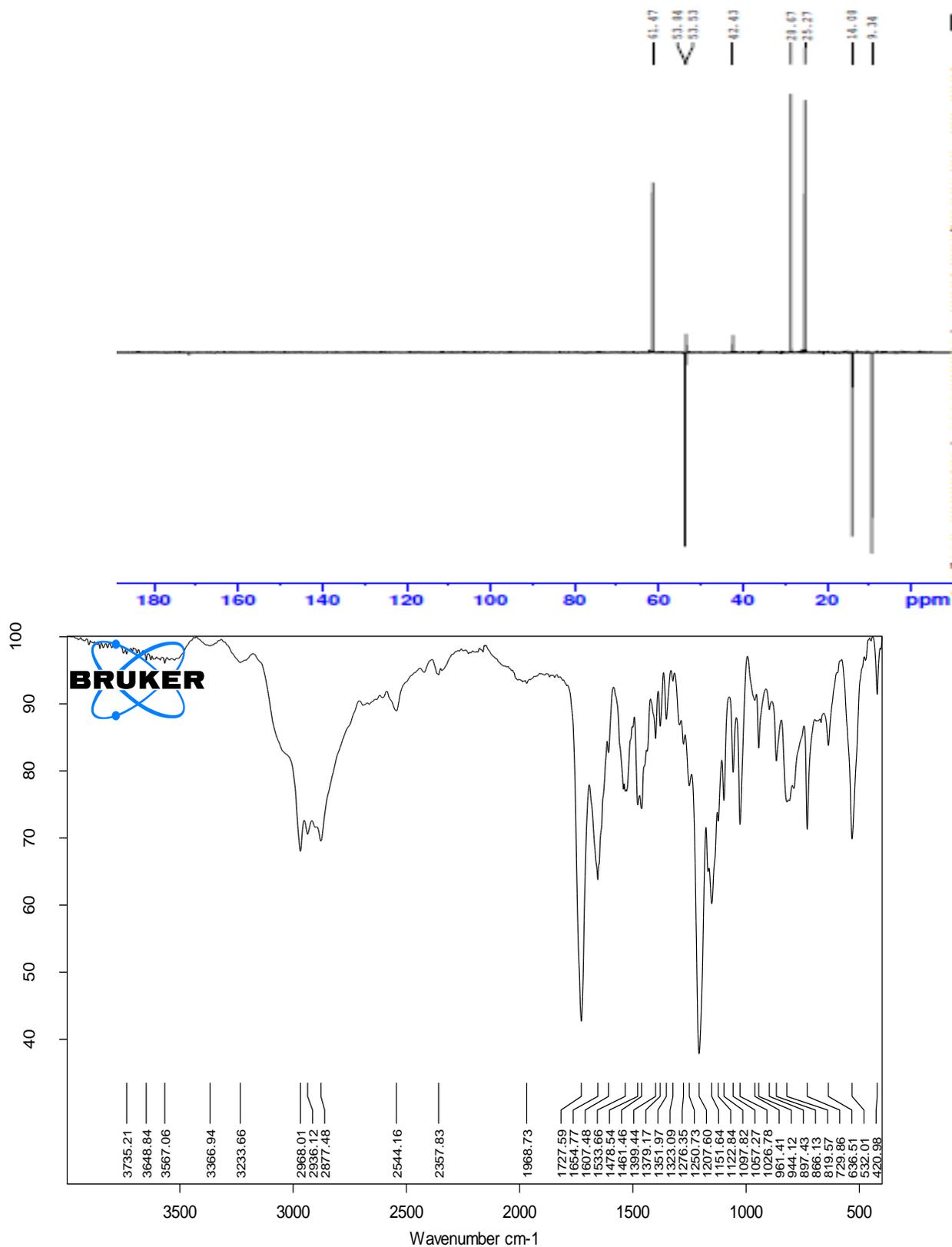
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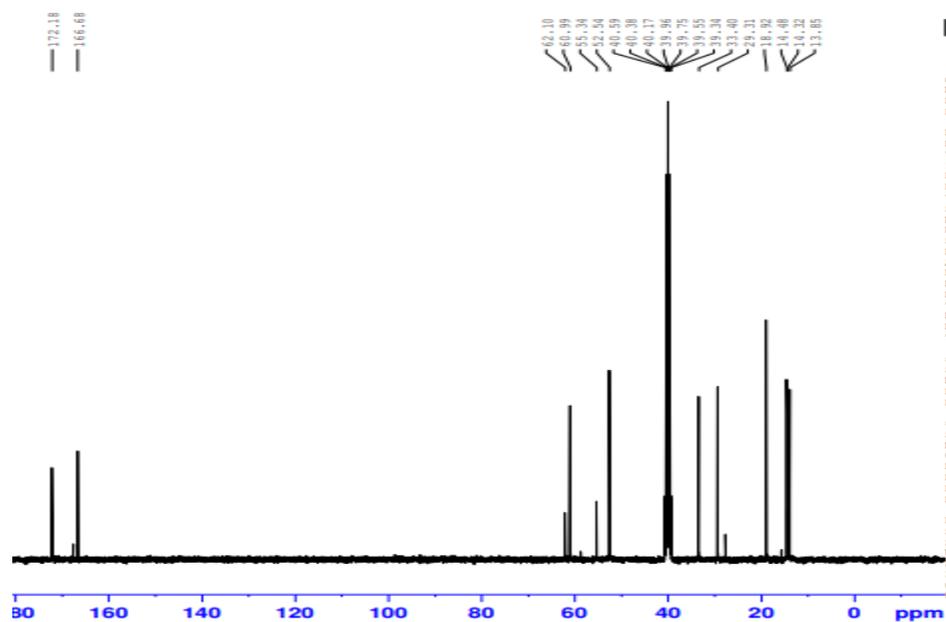
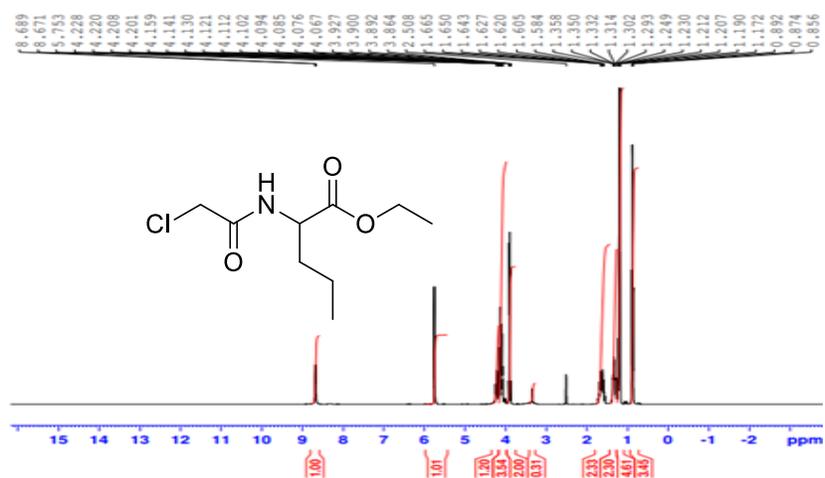
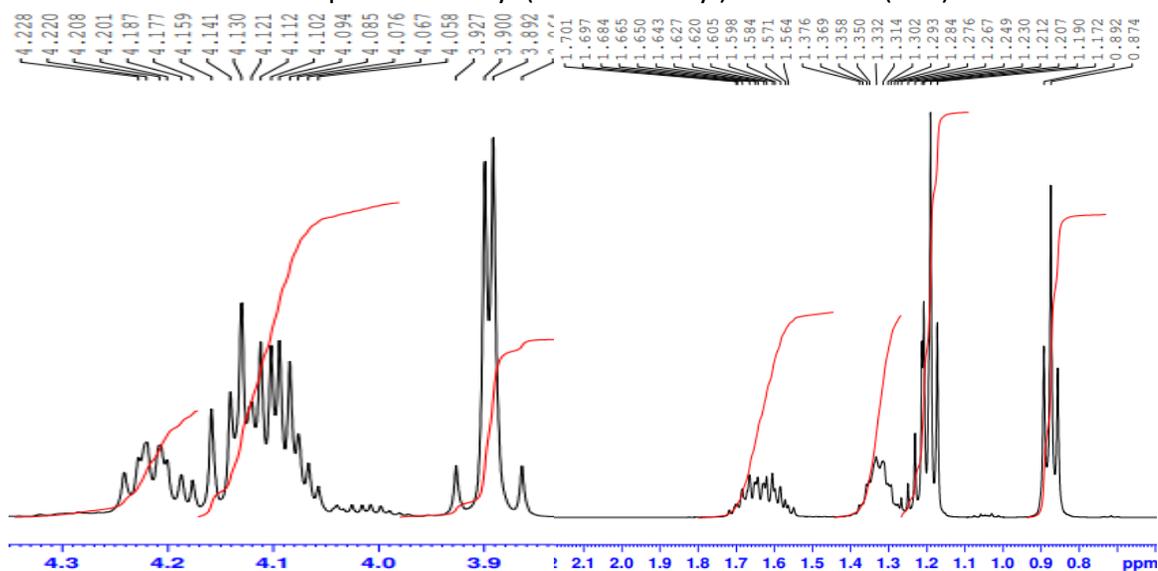
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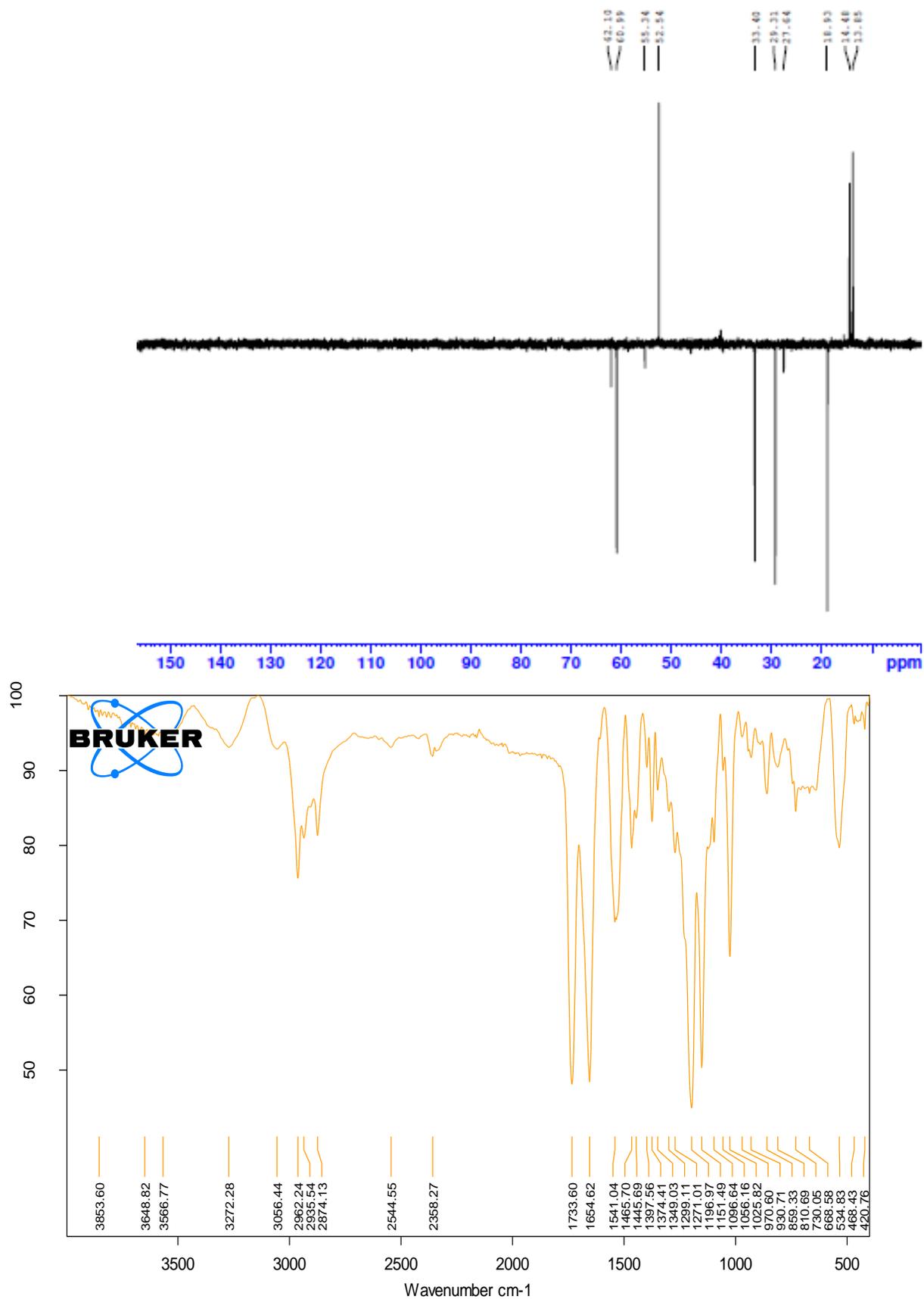
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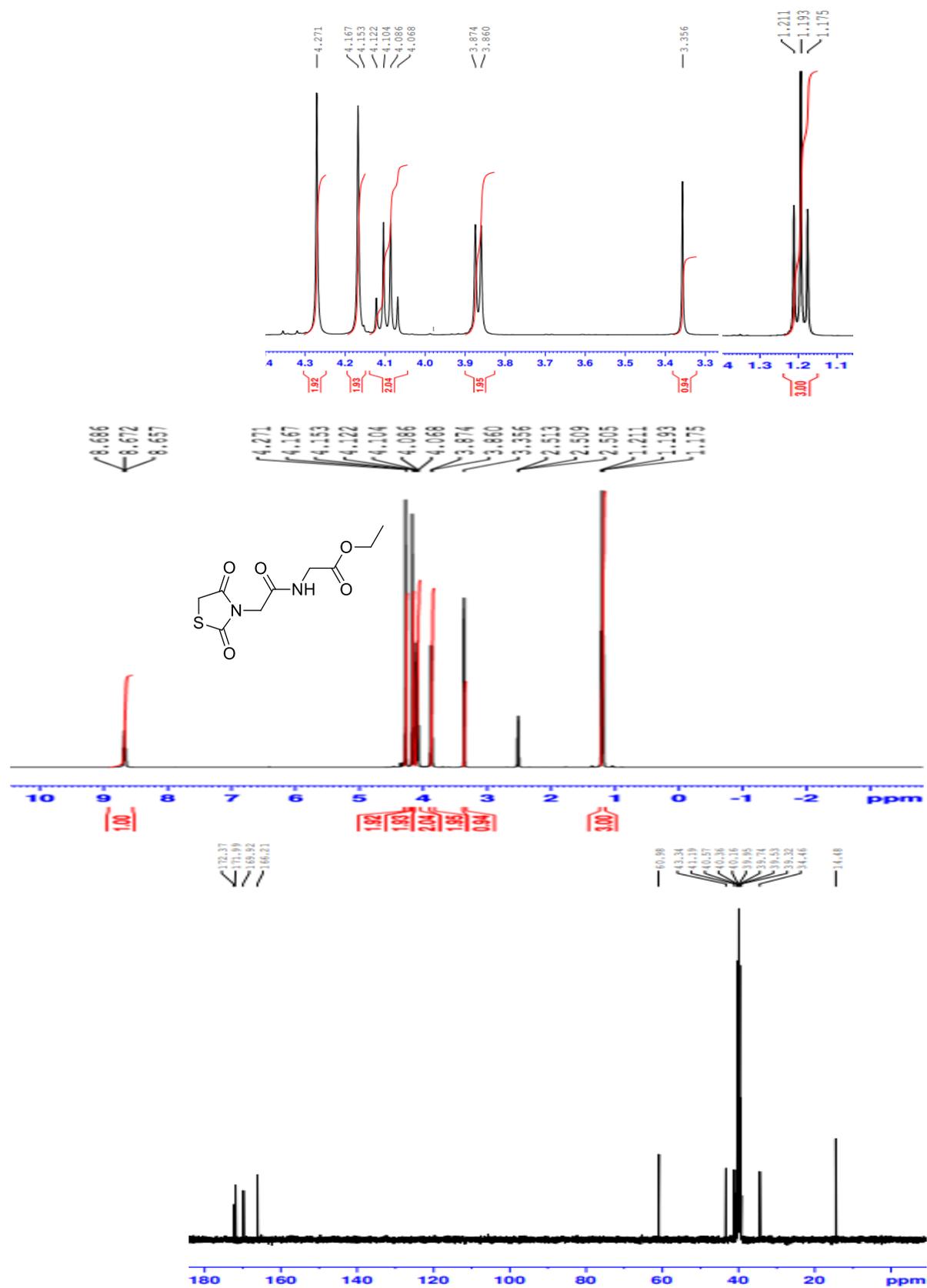
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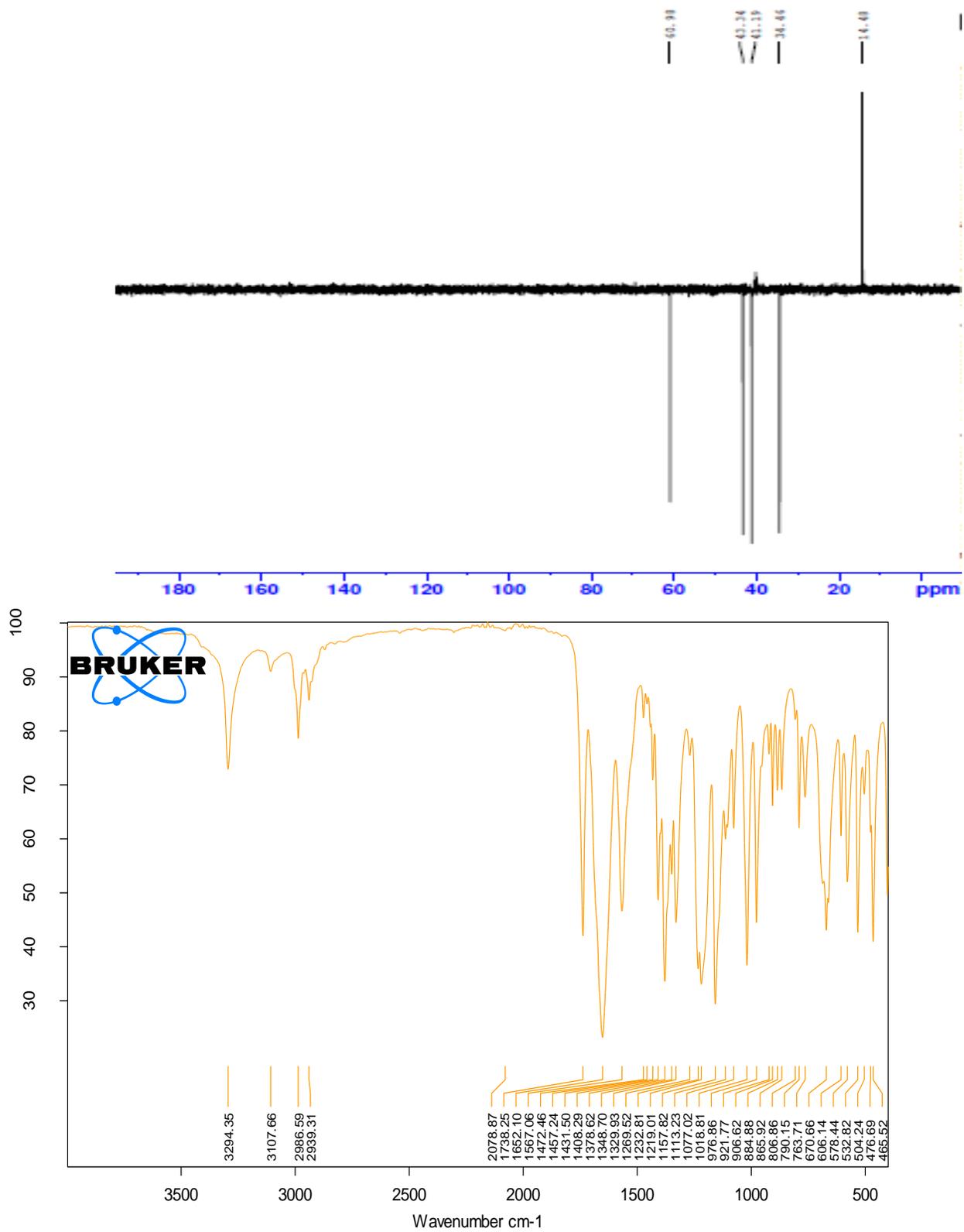
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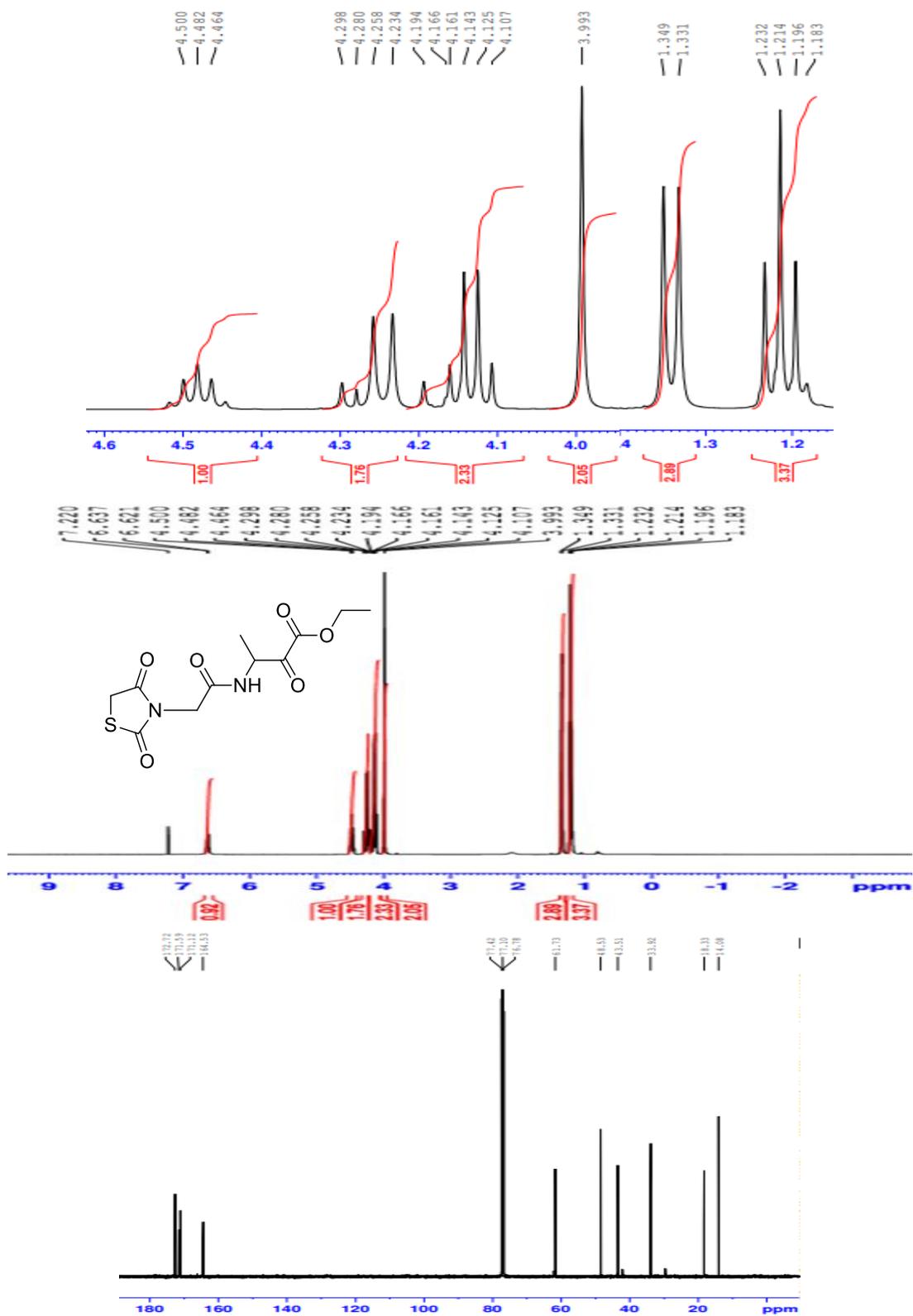
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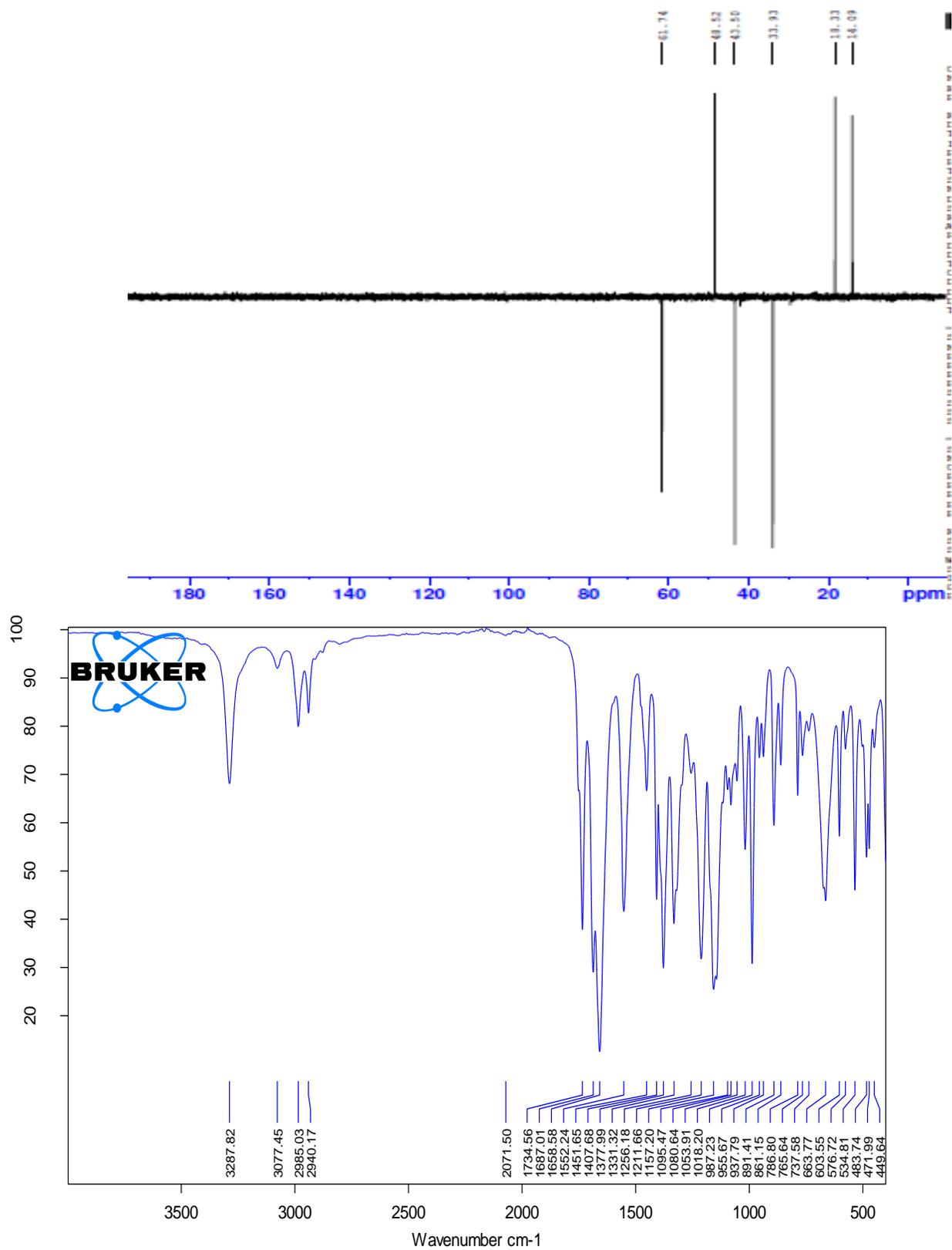
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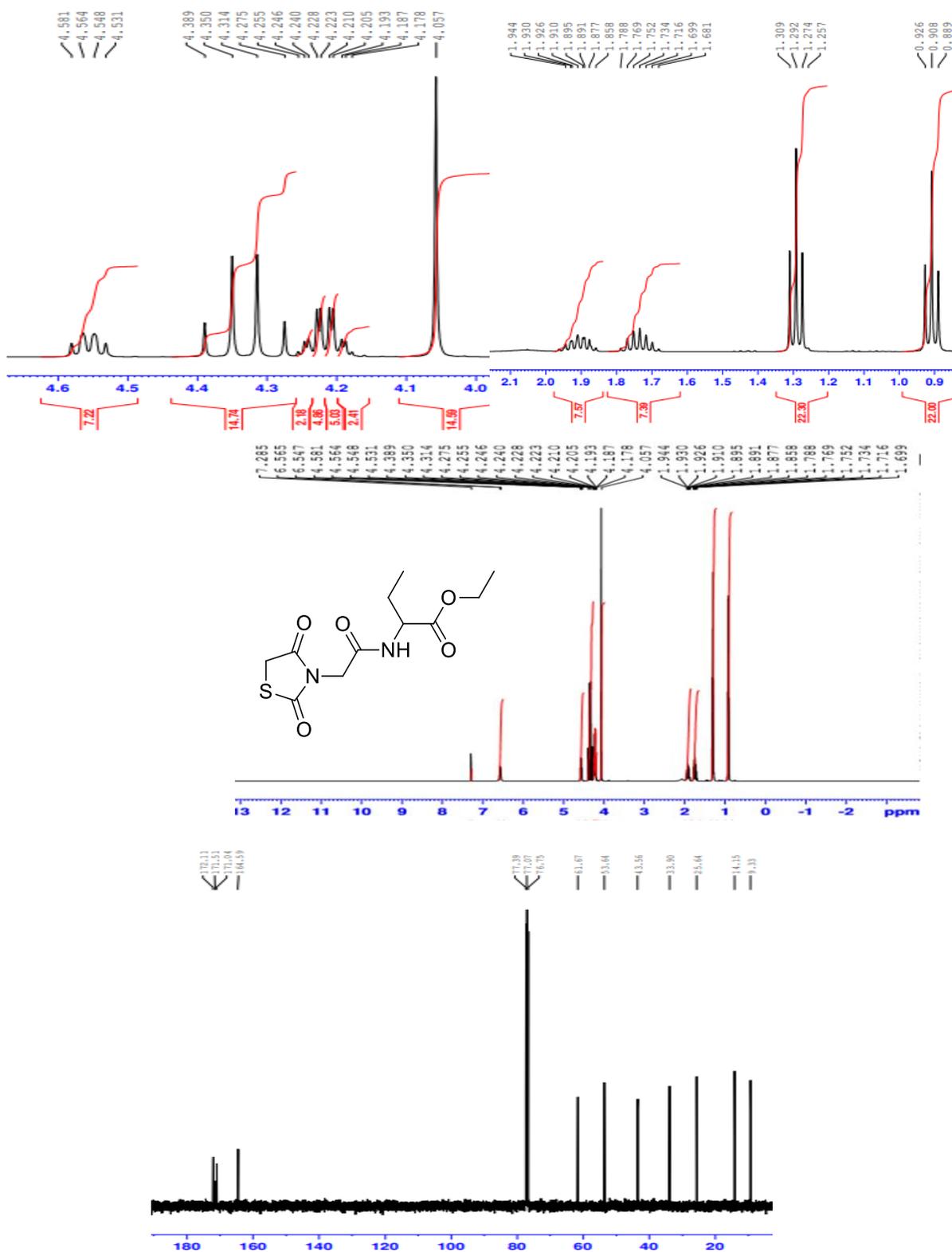
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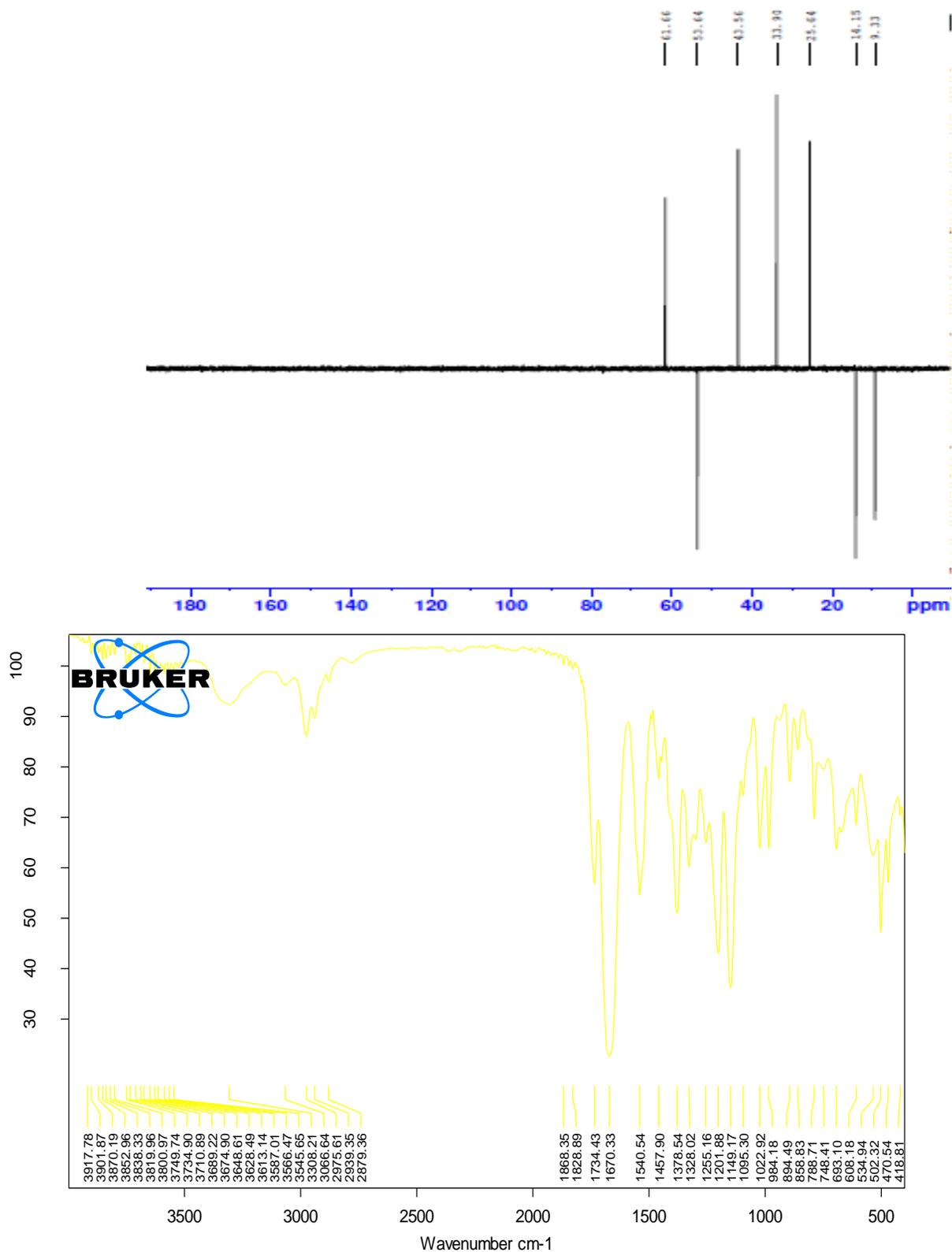
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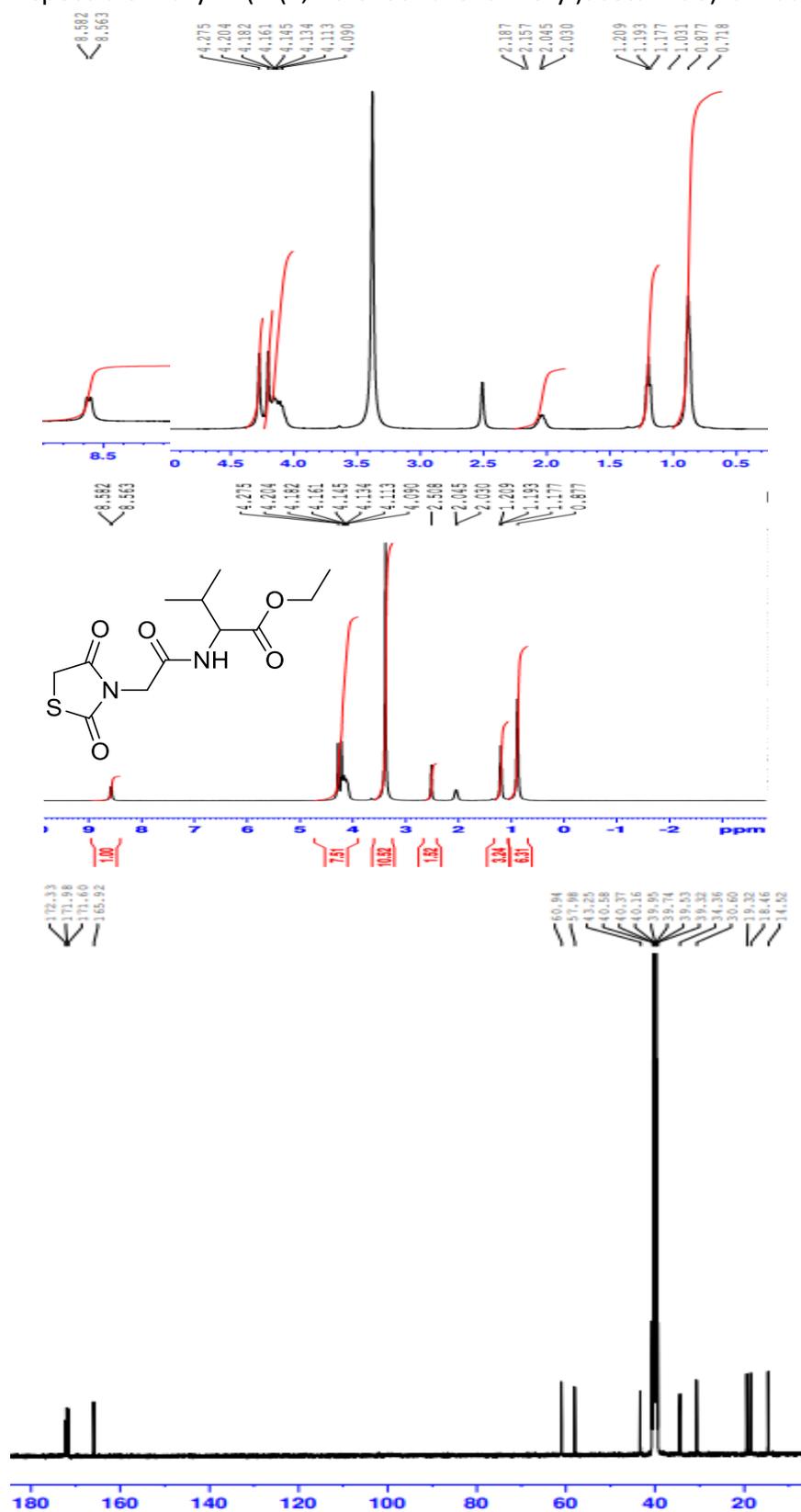
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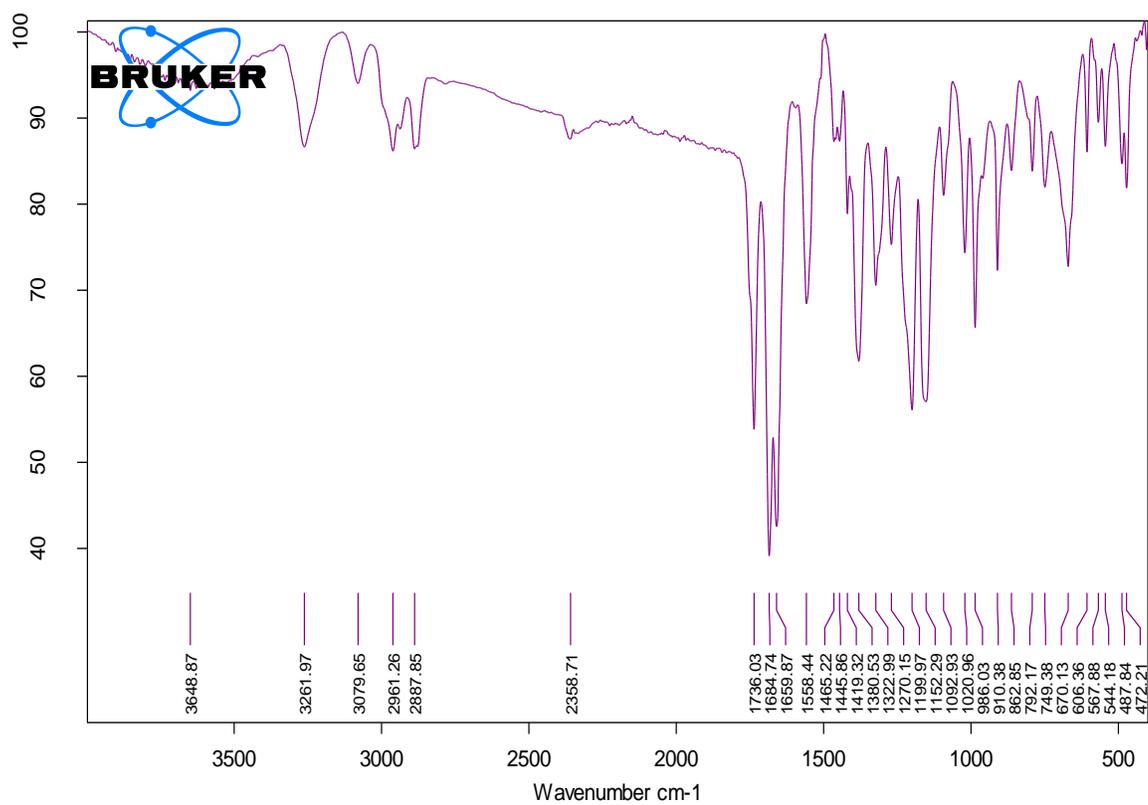
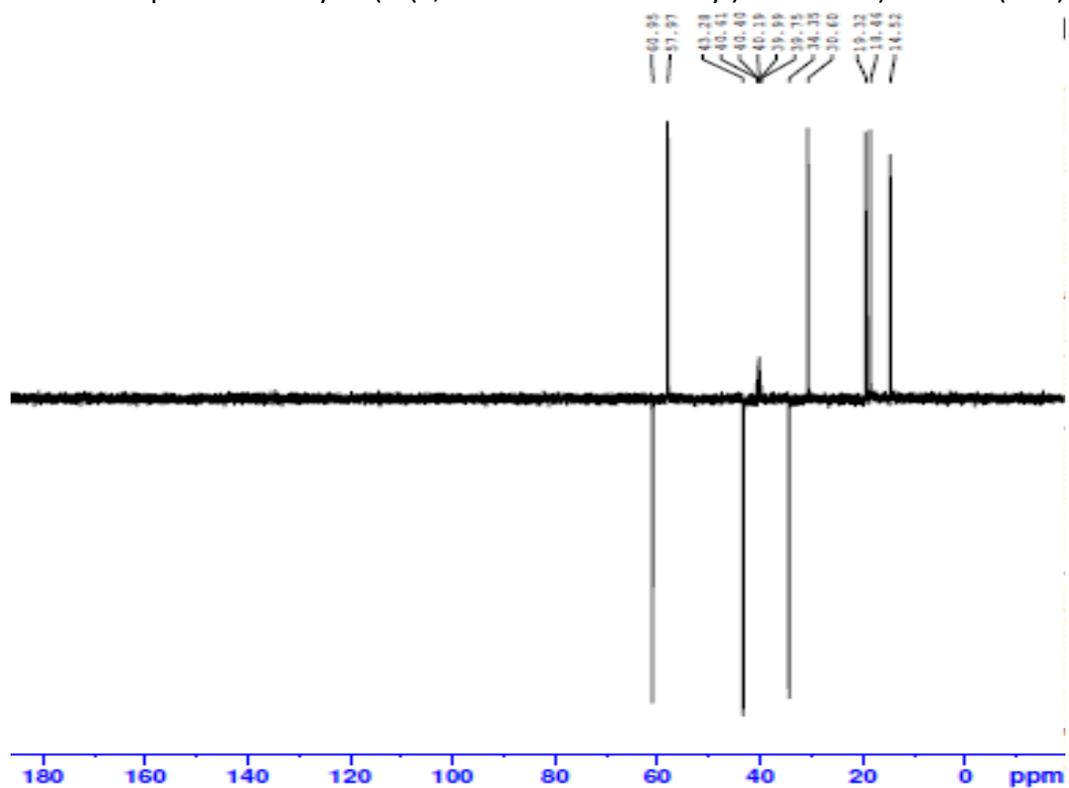
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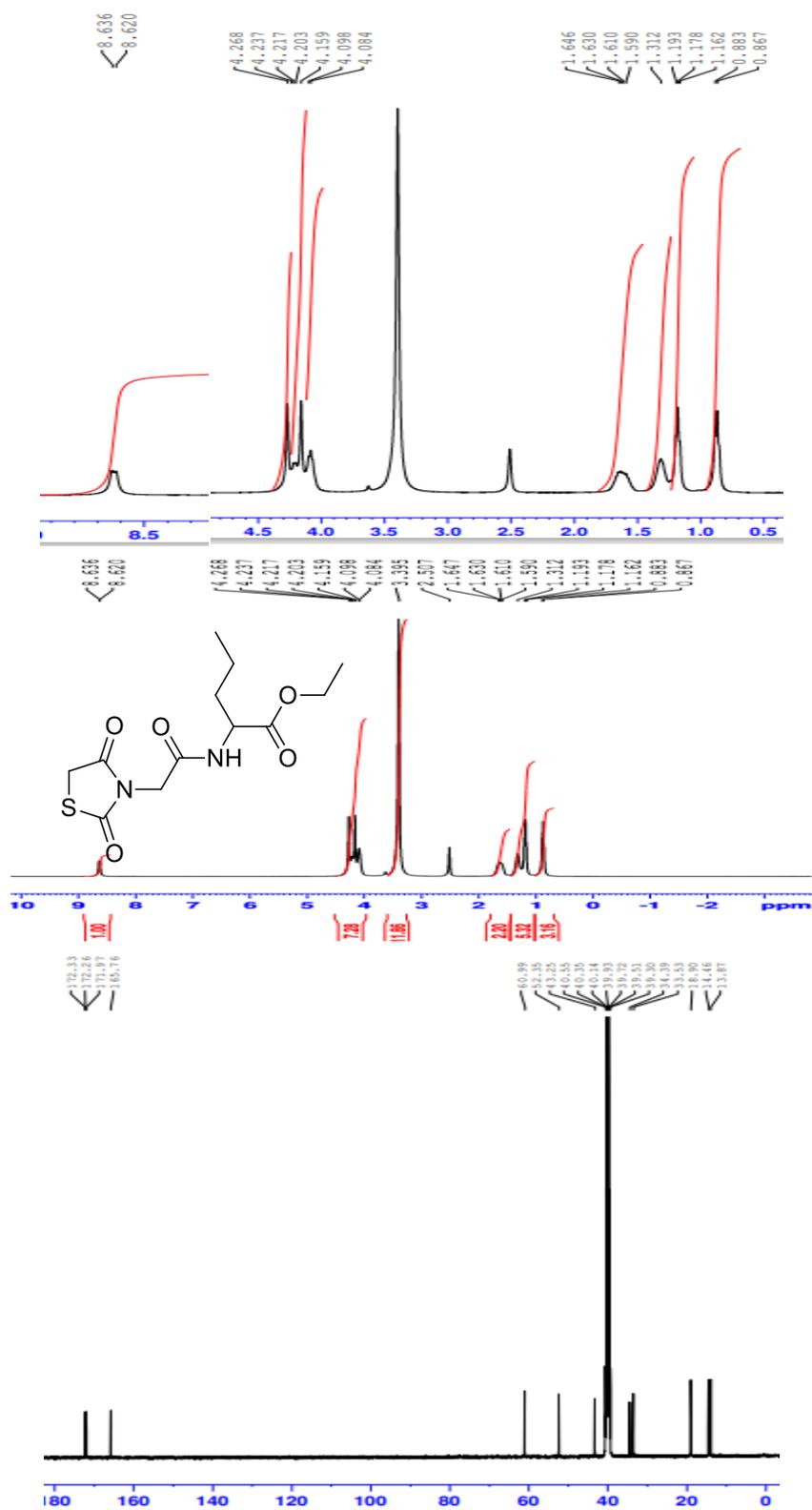
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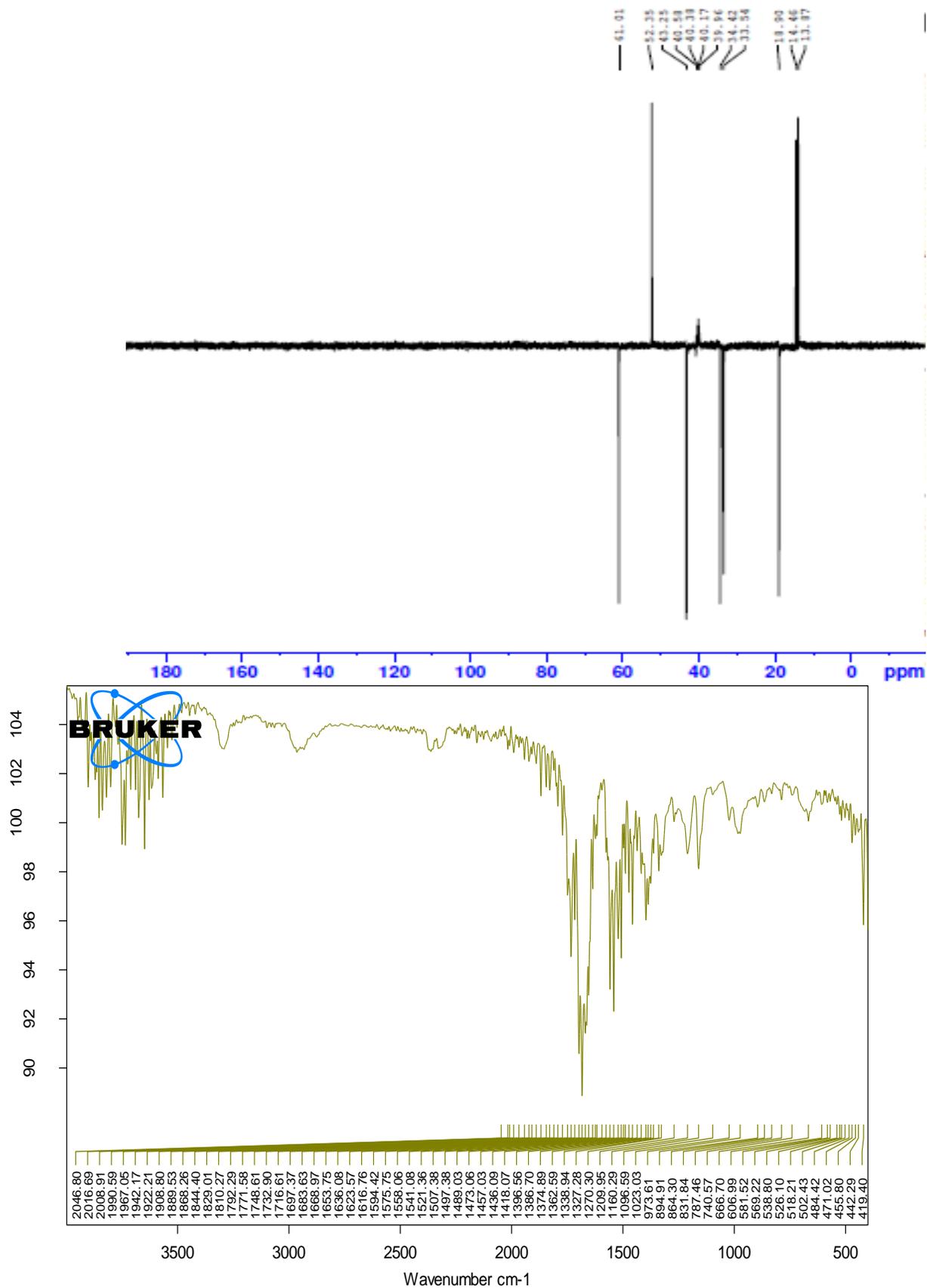
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S11. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(2,4-dioxothiazolidin-3-yl)acetamido)valinate (**12d**)

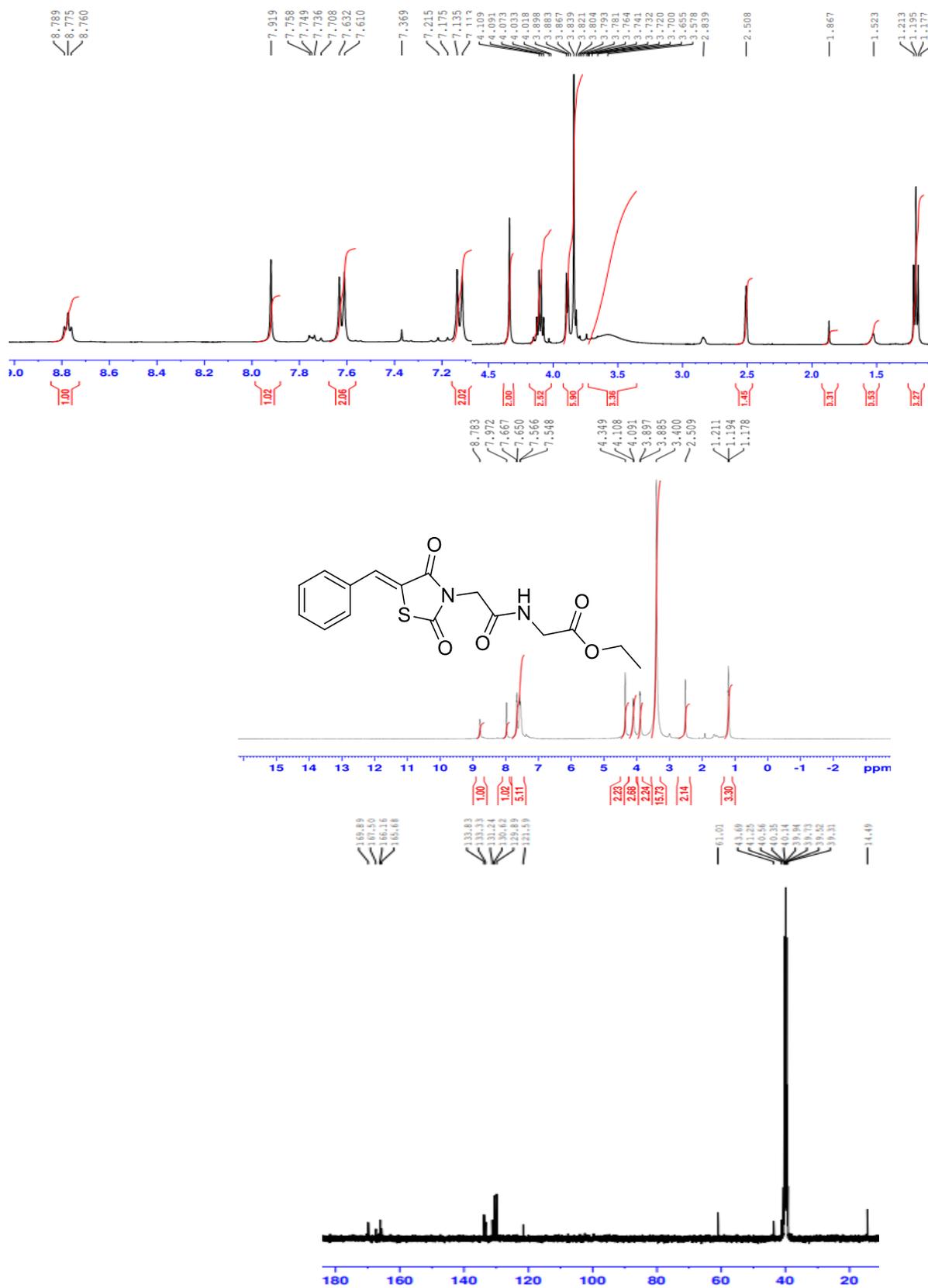
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S13. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(2,4-dioxothiazolidin-3-yl)acetamido)norvallinate (**12e**)

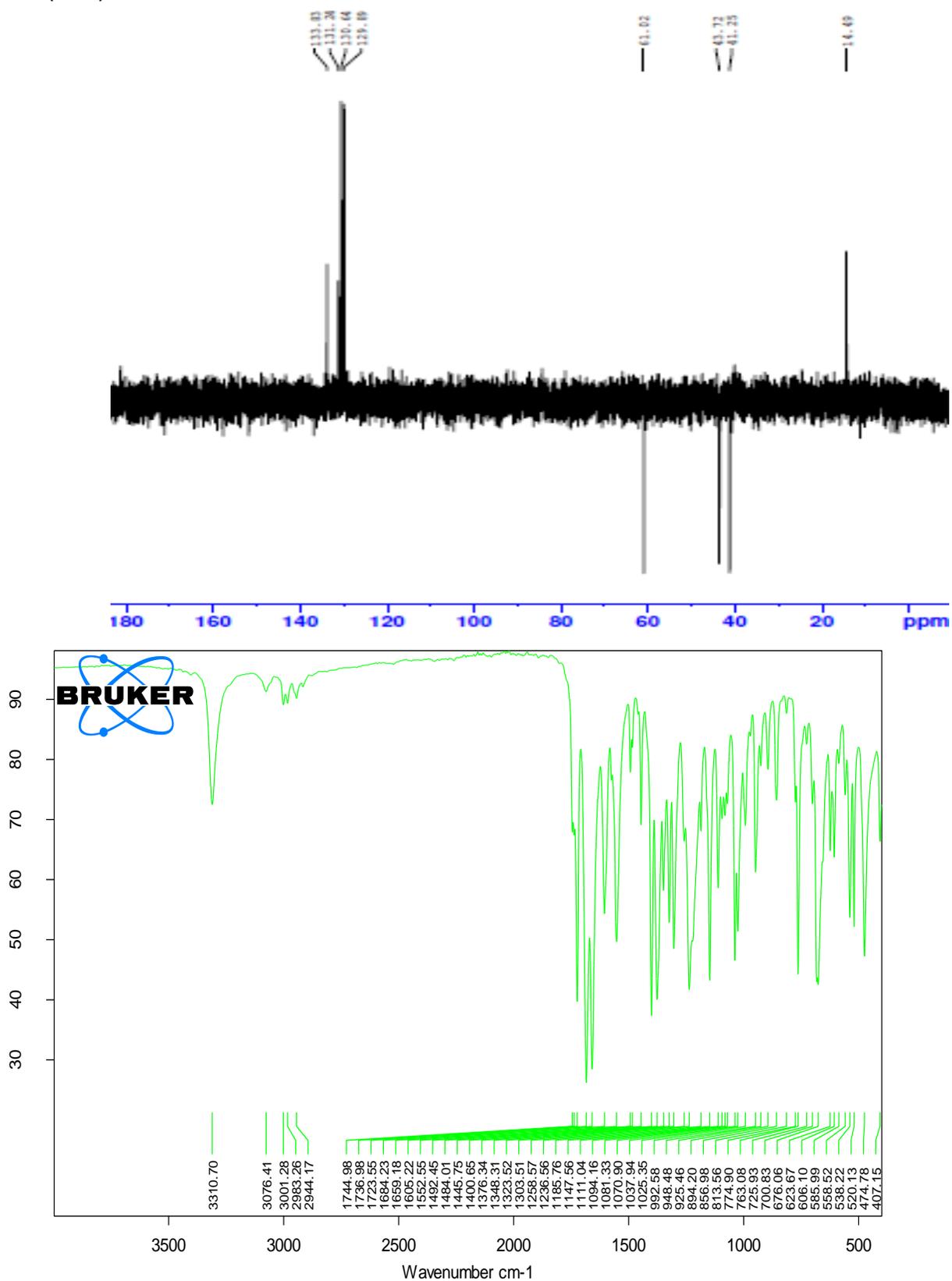
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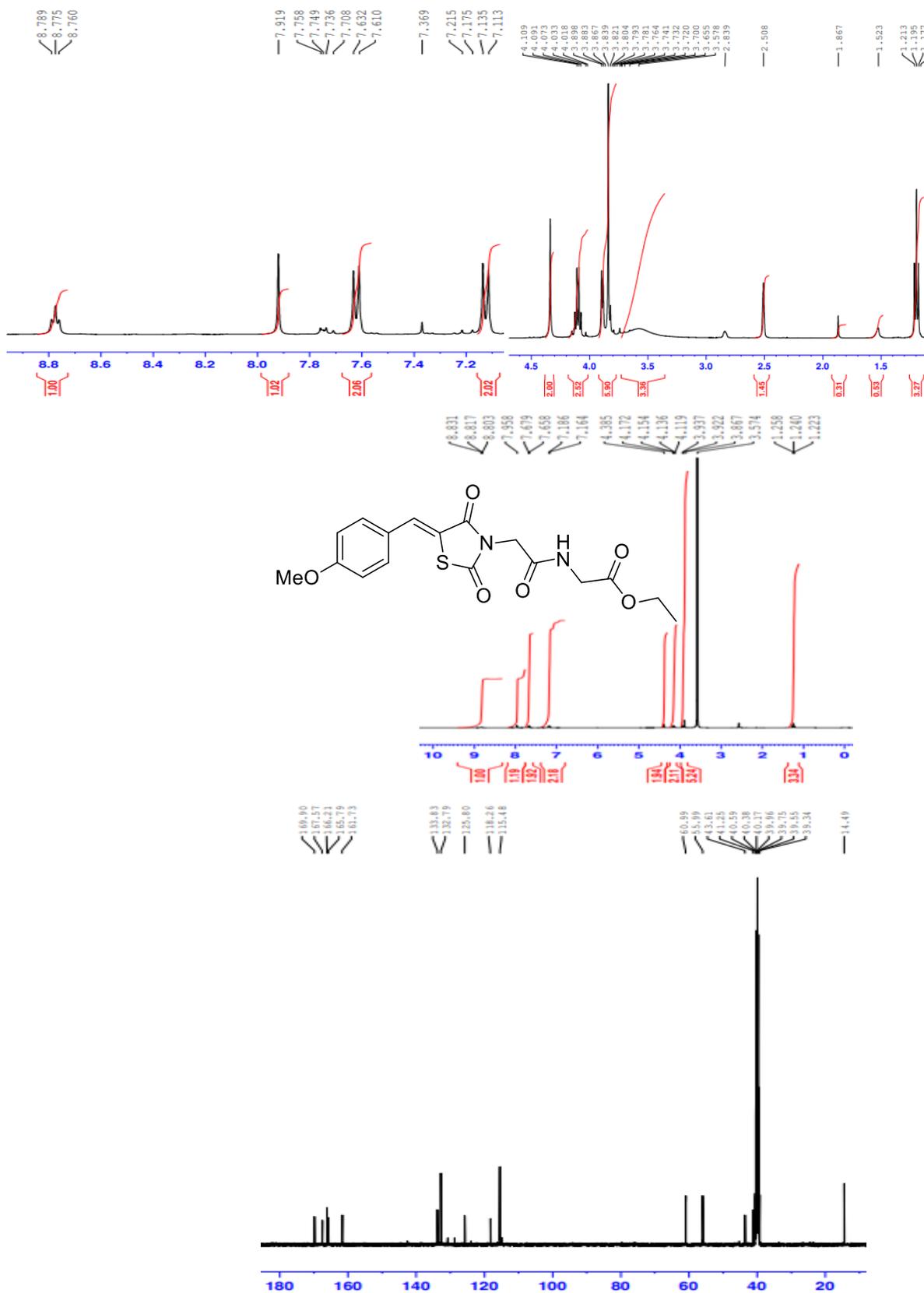
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(13ai)

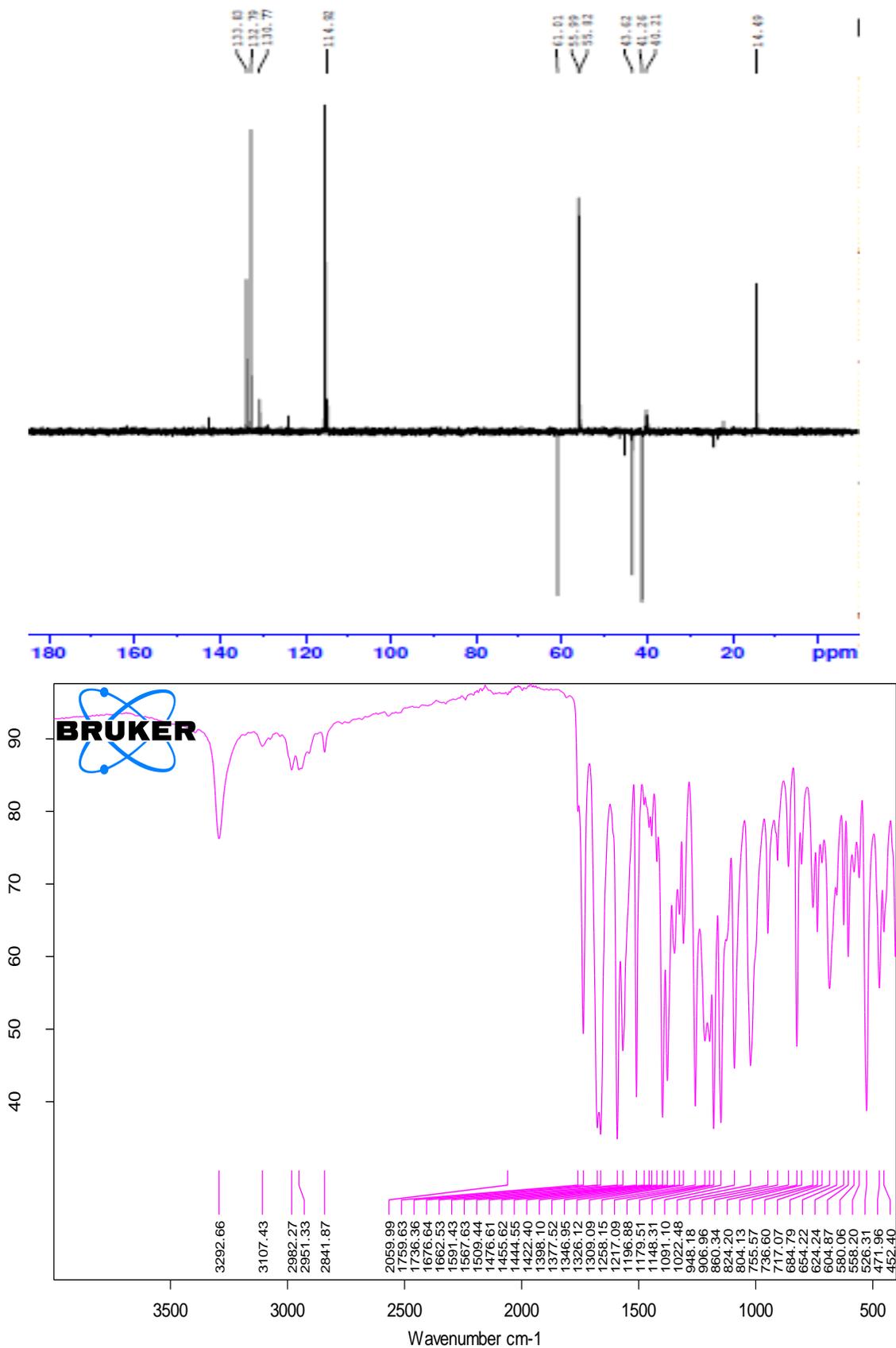


S16. DEPT-135 and IR spectra of Ethyl 2-(2-(5-benzylidene-2,4-dioxothiazolidin-3-yl) acetamido) glycinate (13ai)



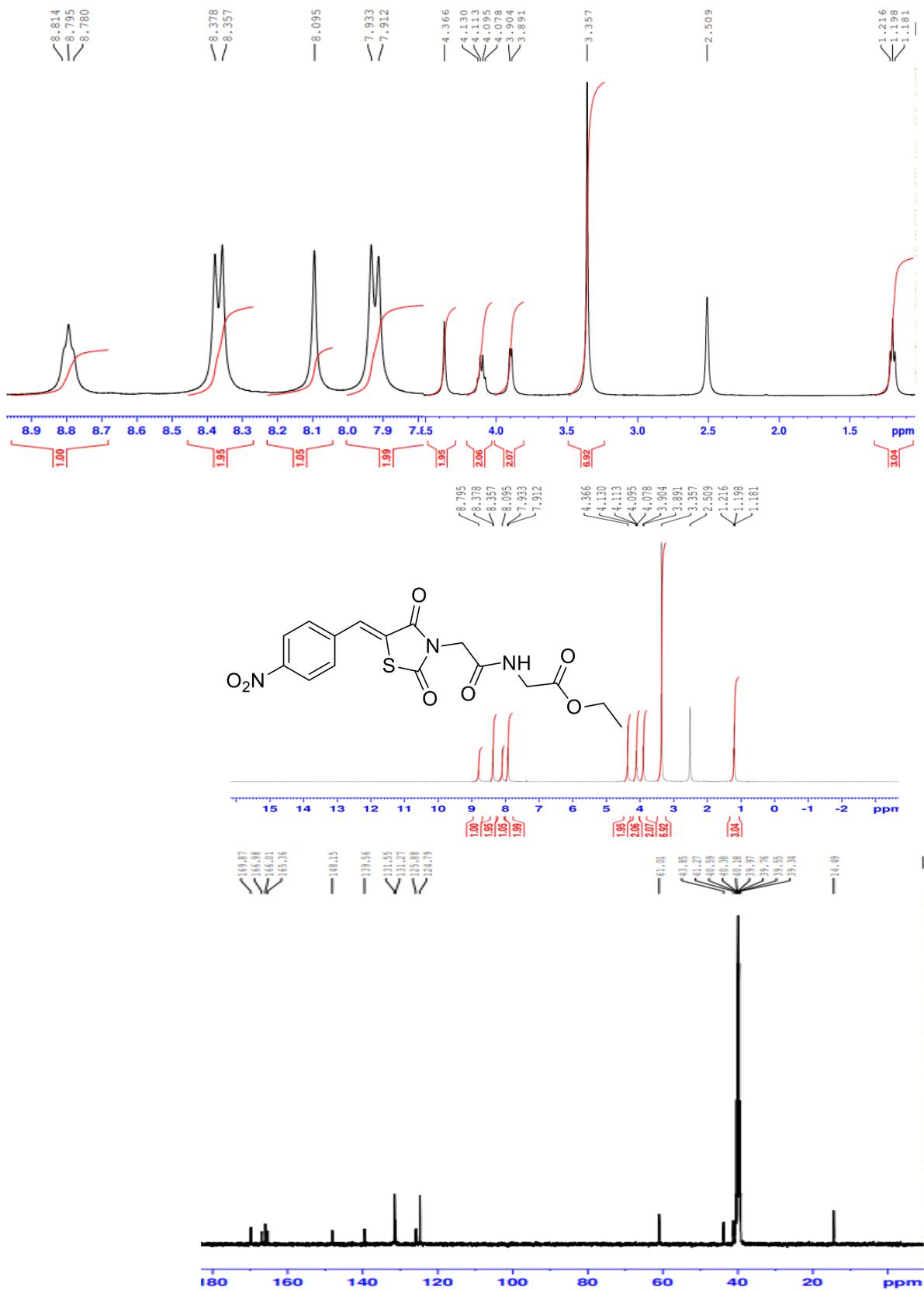
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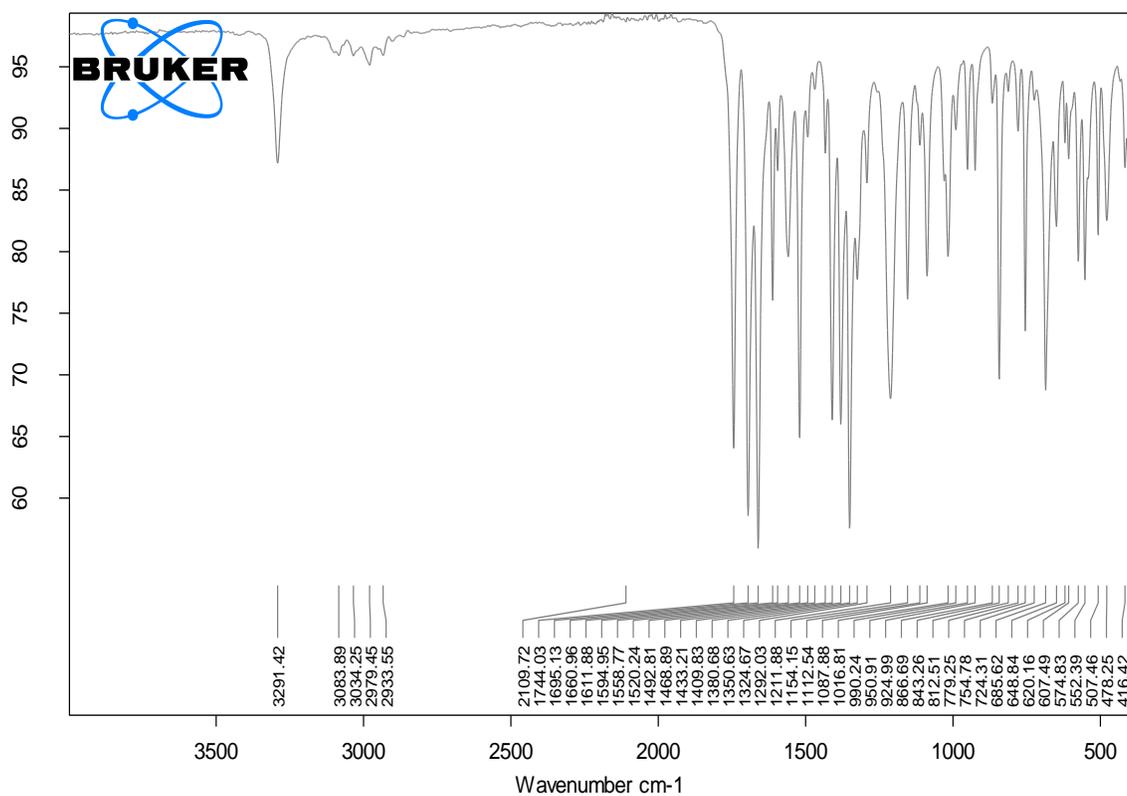
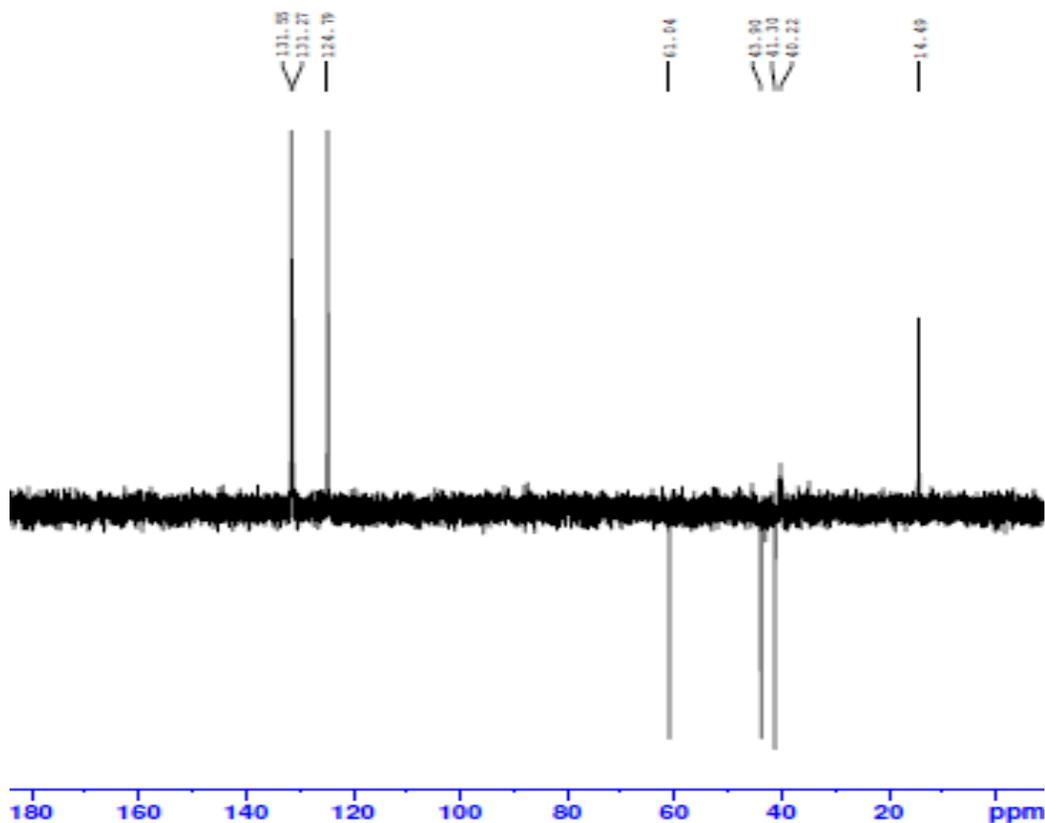


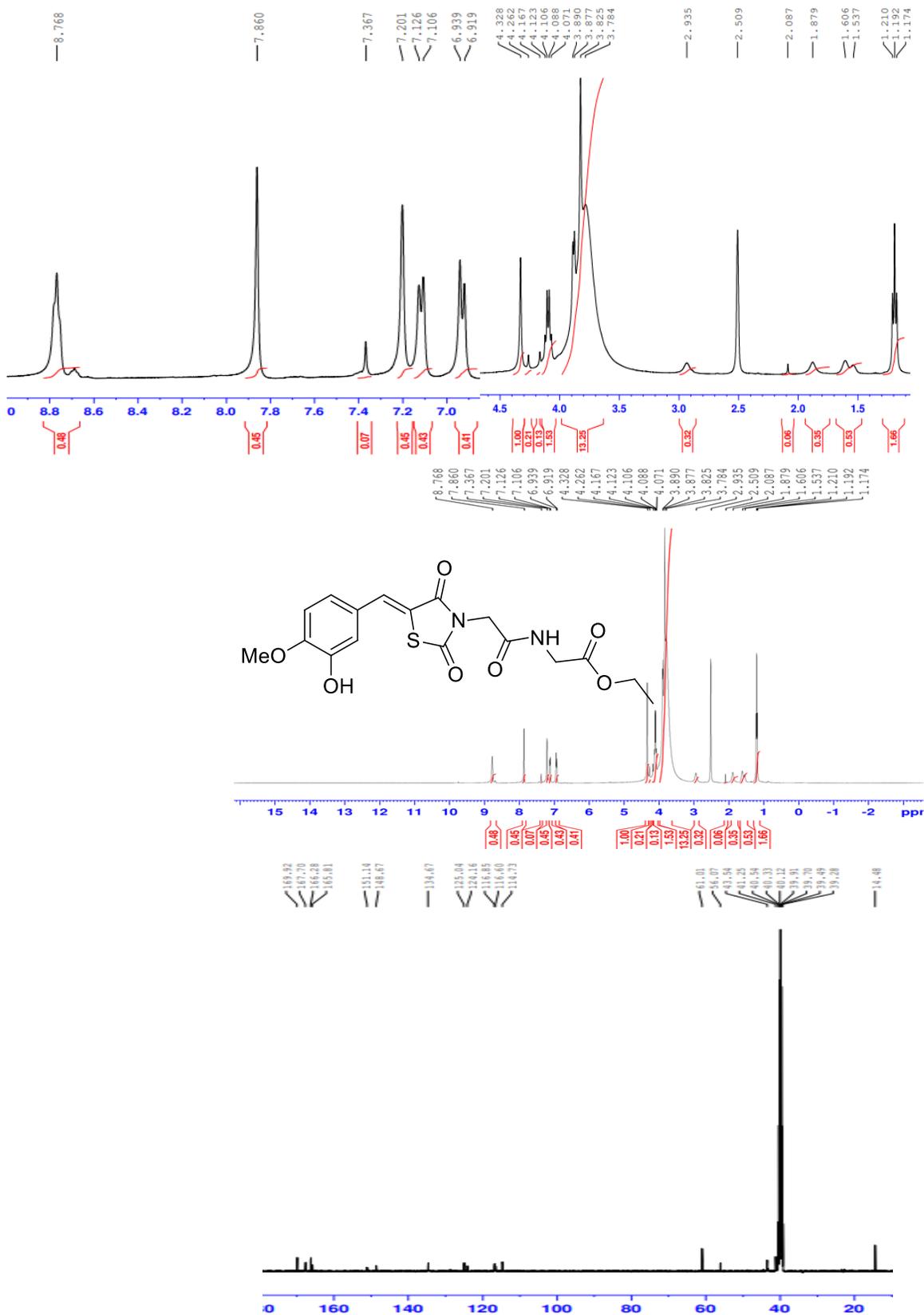
S19. ^1H and ^{13}C NMR of Ethyl 2-(2-(5-(4-nitrobenzylidene)-2,4-dioxothiazolidin-3-yl) acetamido) glycinate

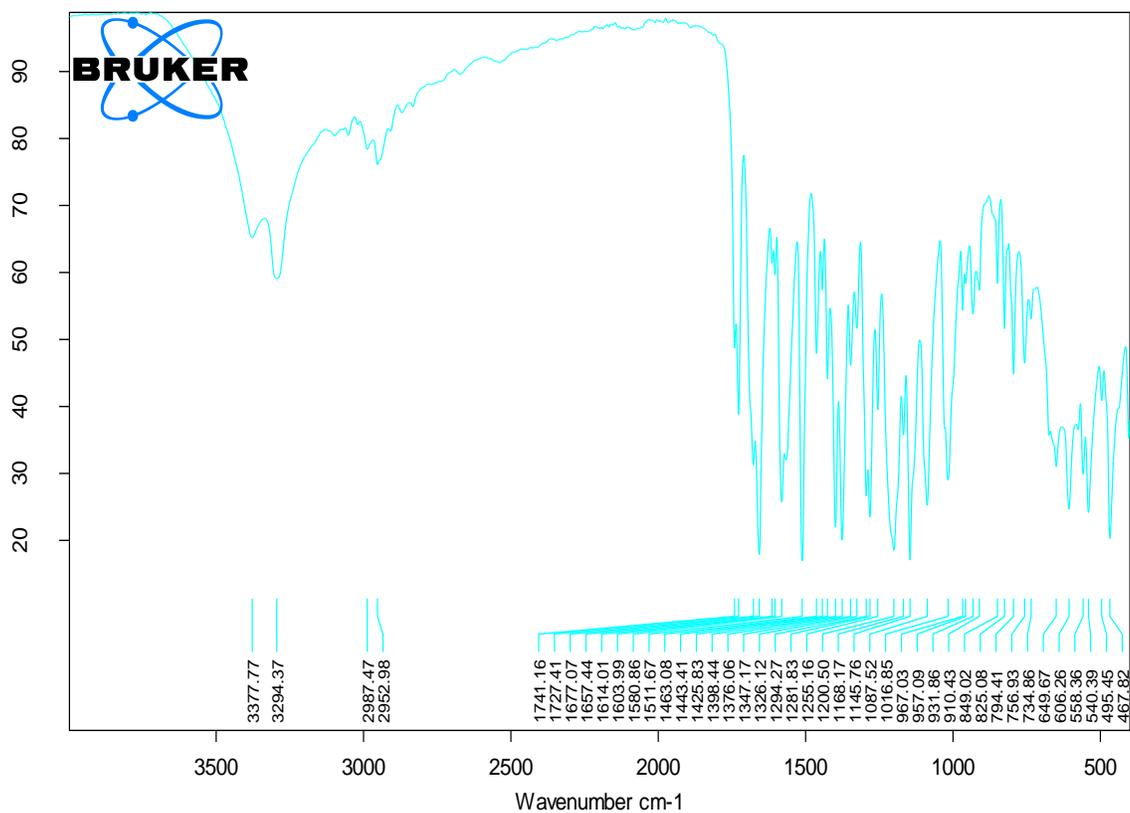
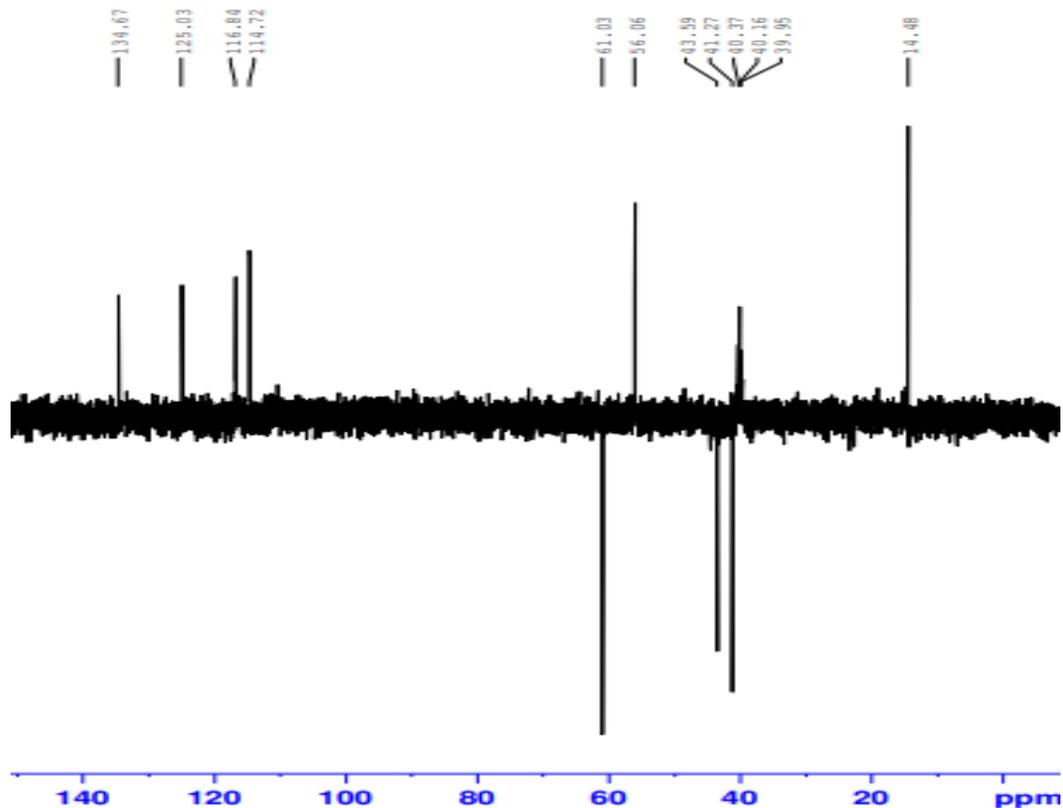
(13aiii)

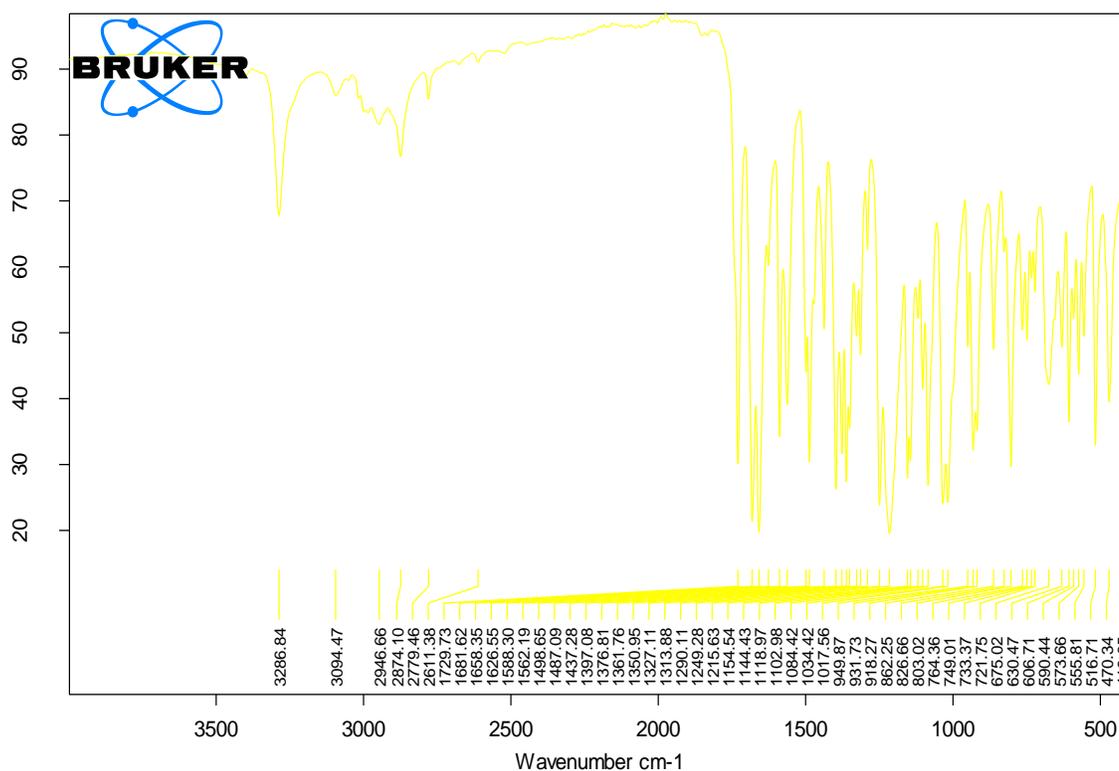
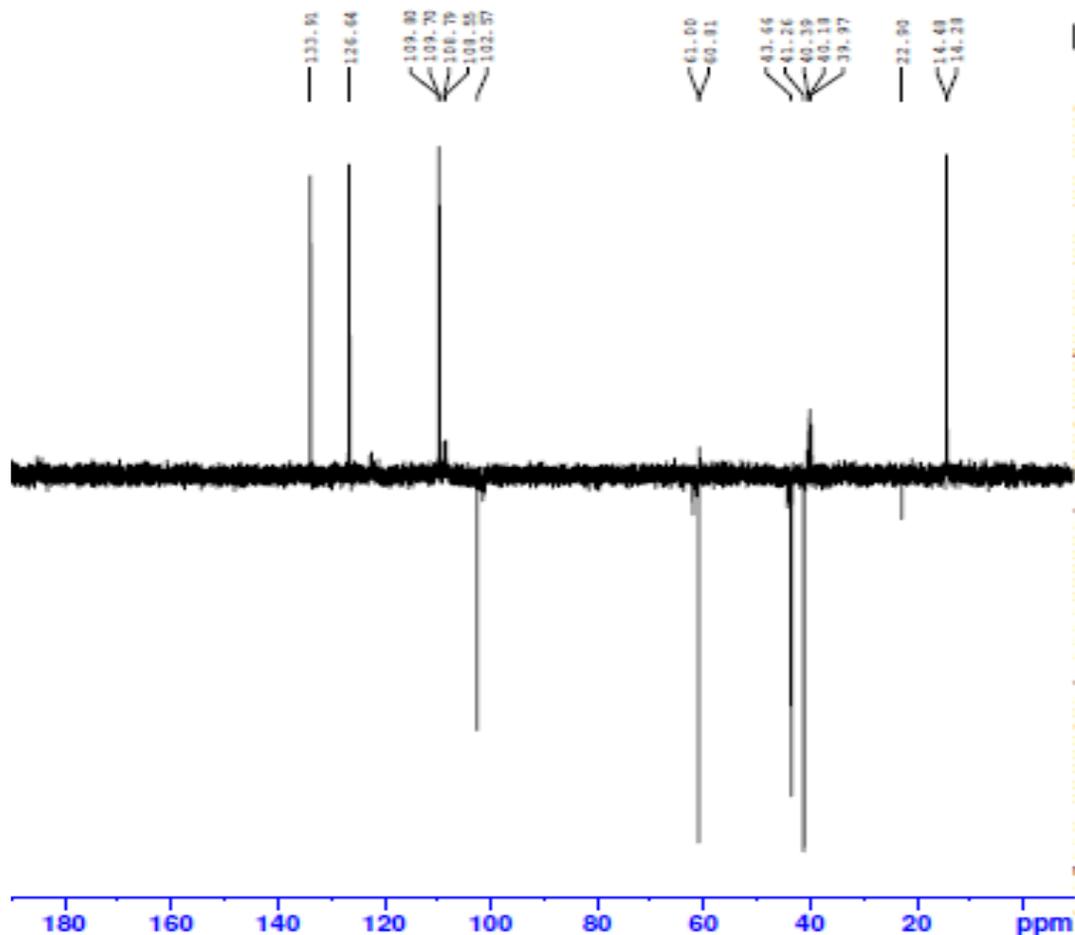


S20. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(4-nitrobenzylidene)-2,4-dioxothiazolidin-3-yl) acetamido) glycinate (**13aiii**)



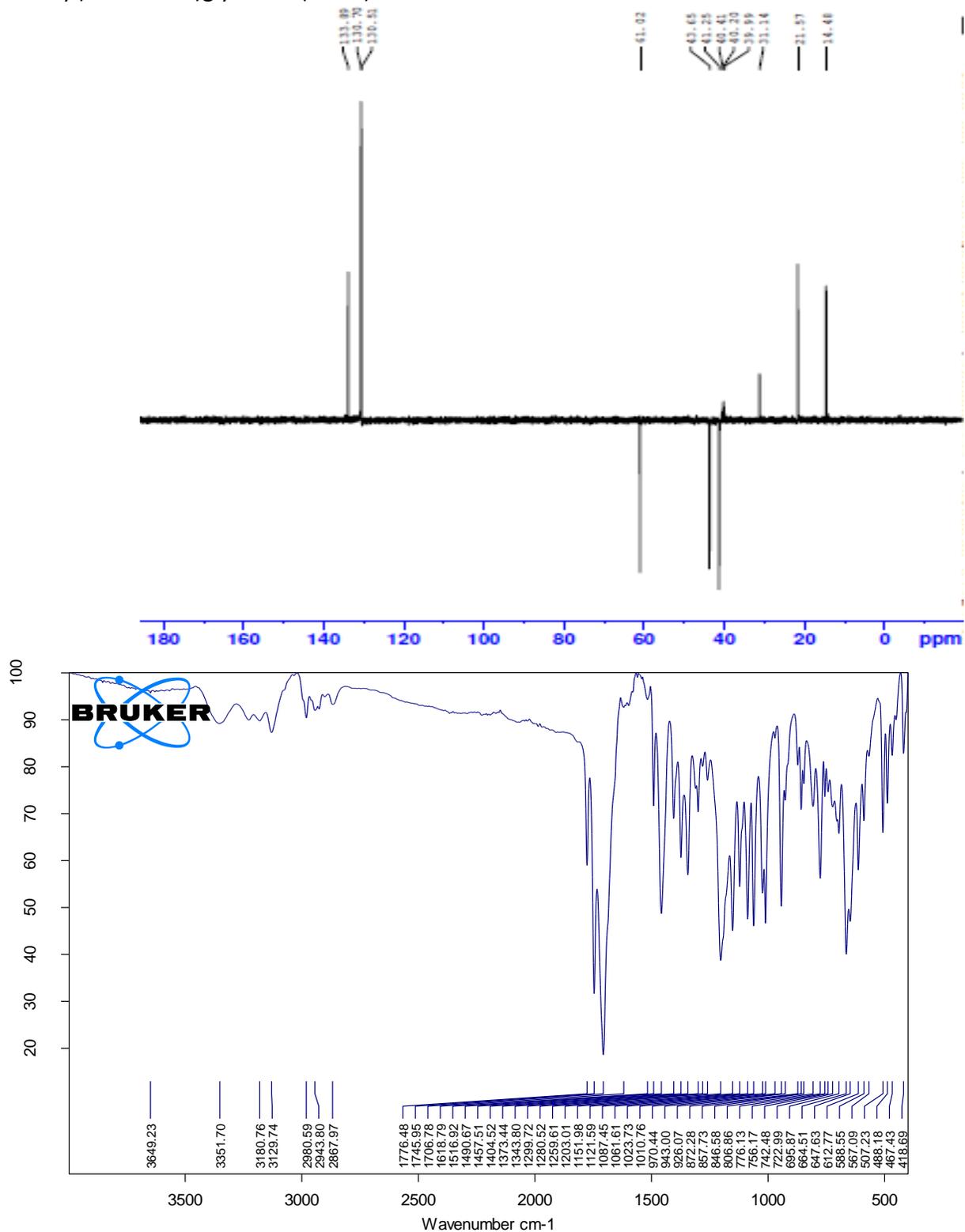
S21. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-(3-hydroxy-4-methoxybenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido) glycinate (**13aiv**)

S22. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(3-hydroxy-4-methoxybenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido) glycinate (**13aiv**)

S24. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(Benzo[d][1,3] dioxol-5-ylmethylene)-2,4-dioxothiazolidin-3-yl)acetamido)glycinate (**13av**)

S25. ^1H and ^{13}C NMR spectra of ethyl 2-(2-(5-(4-methylbenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)glycinate (**13avi**)



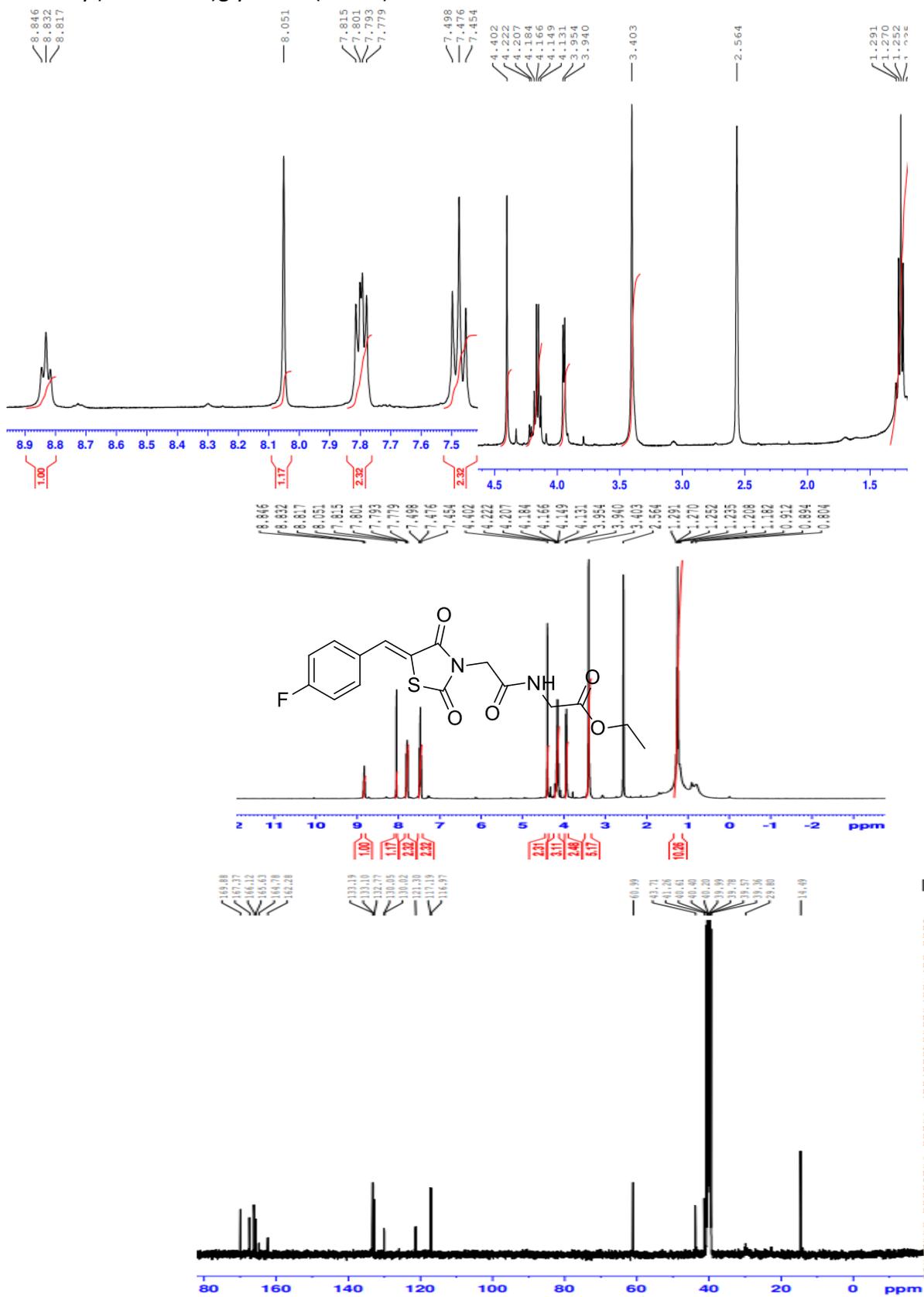
S26. DEPT-135 and IR spectra of ethyl 2-(2-(5-(4-methylbenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)glycinate (**13avi**)

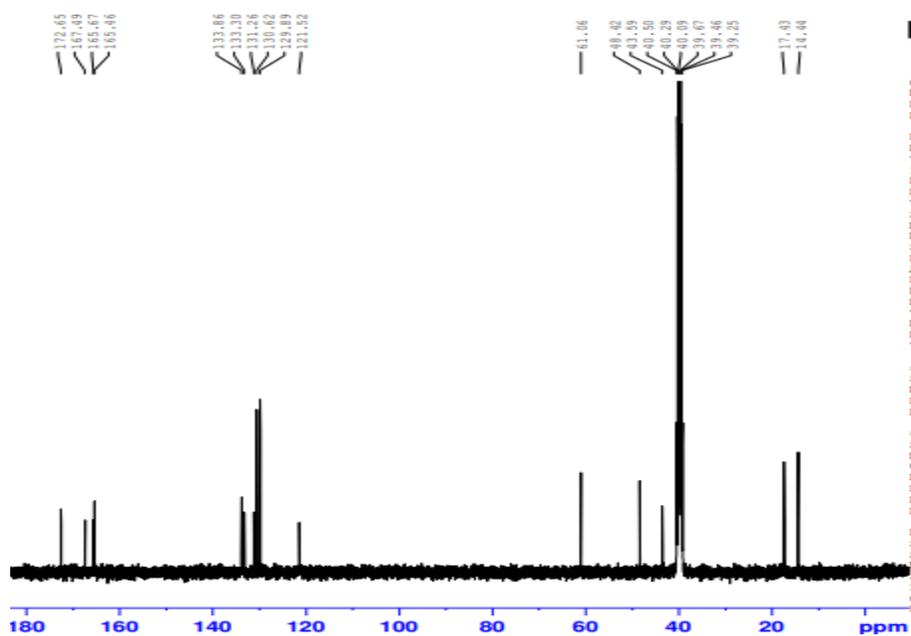
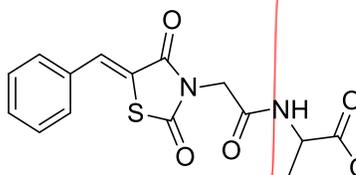
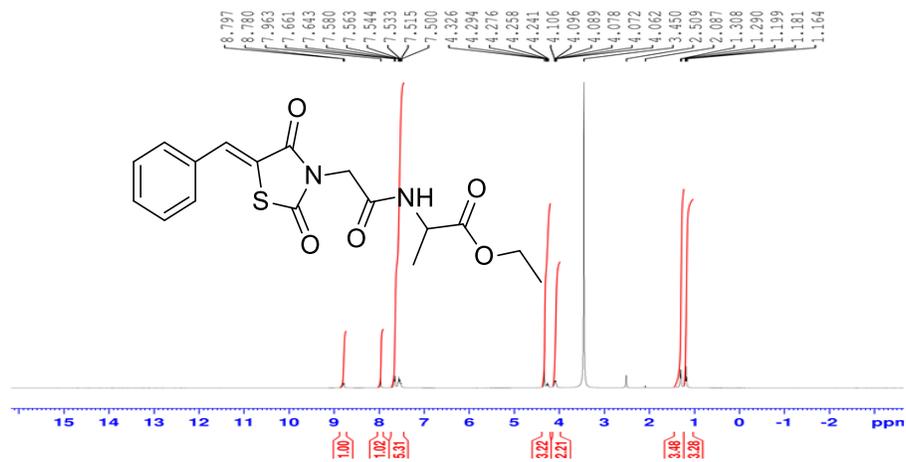
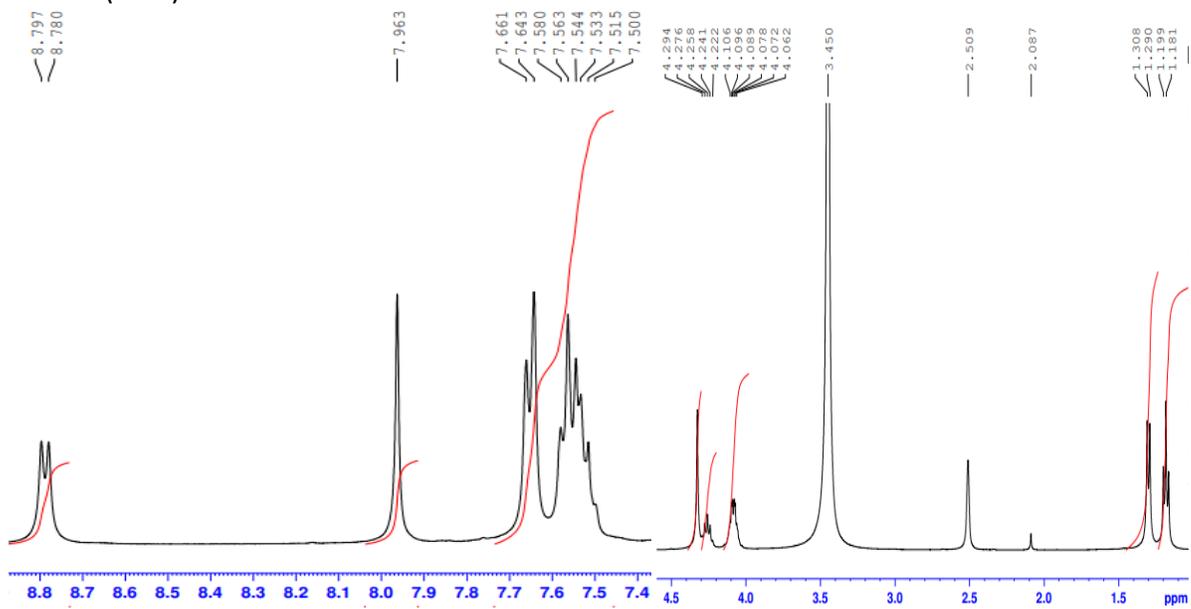
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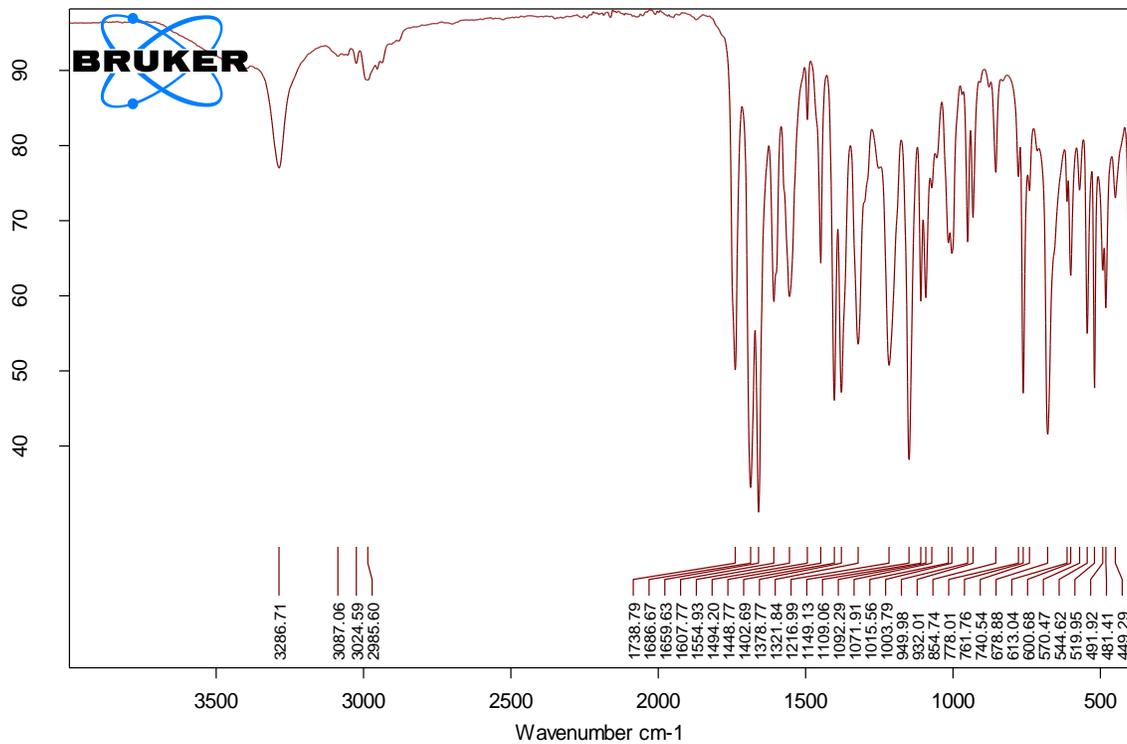
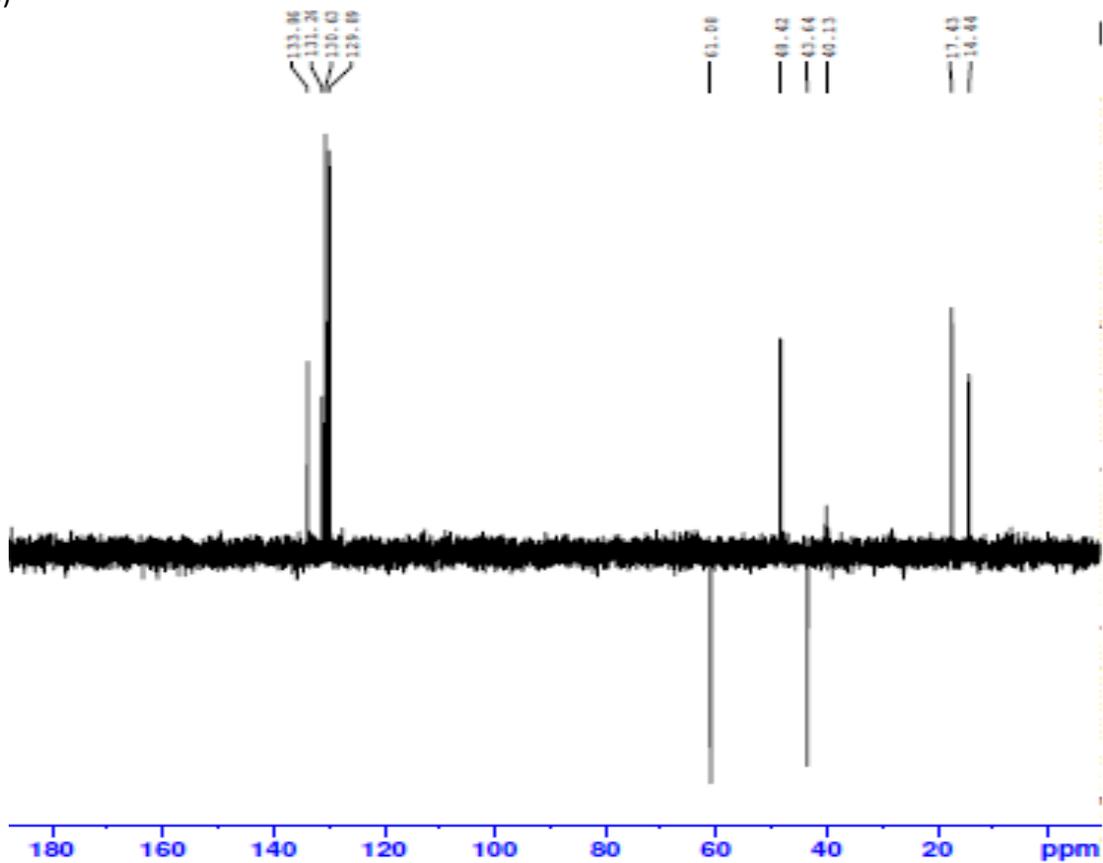
Instrument type and / or accessory

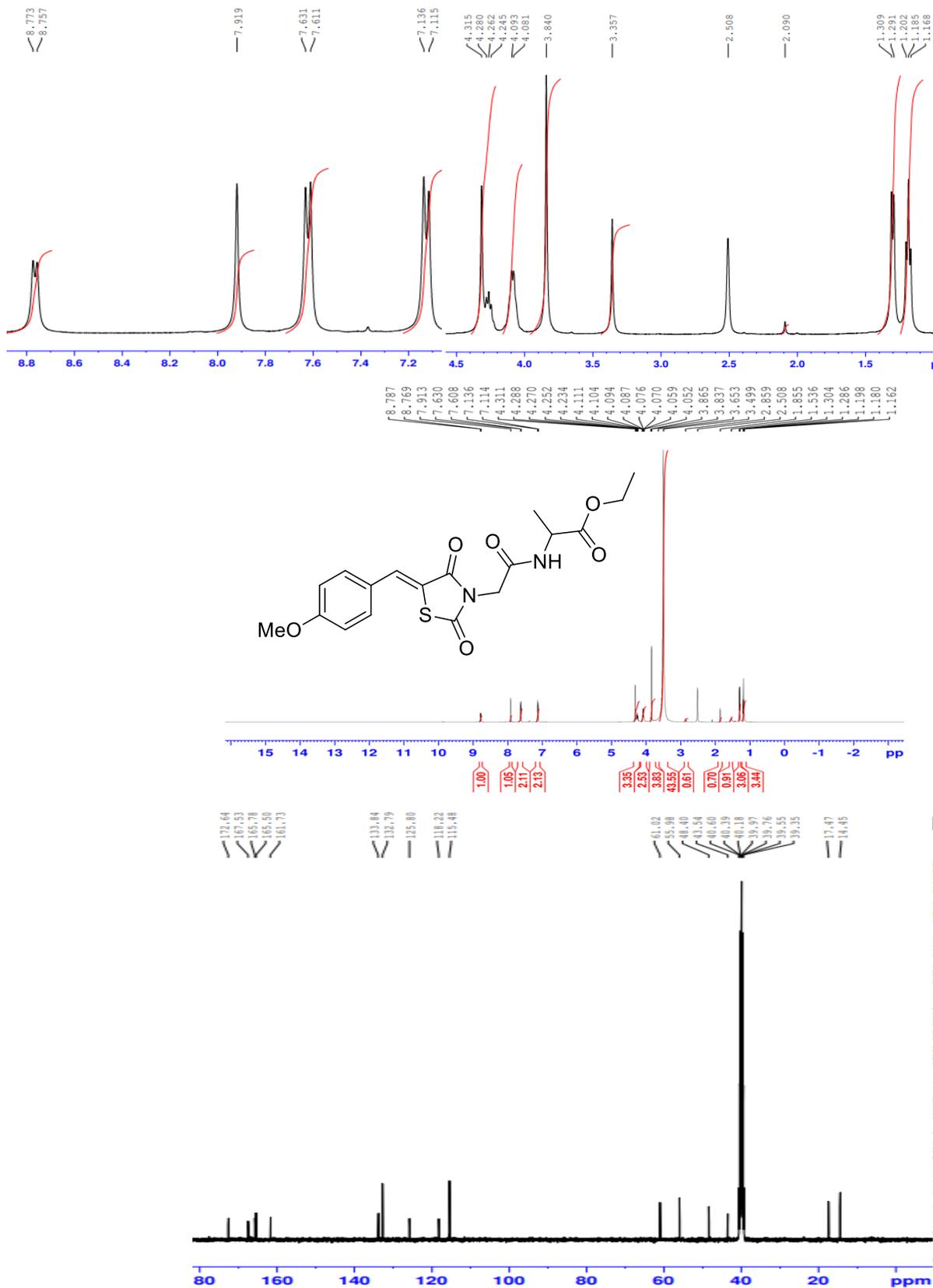
7/20/2020

S27. ^1H and ^{13}C NMR spectra of ethyl 2-(2-(5-(4-Fluorobenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)glycinate (**13avii**)

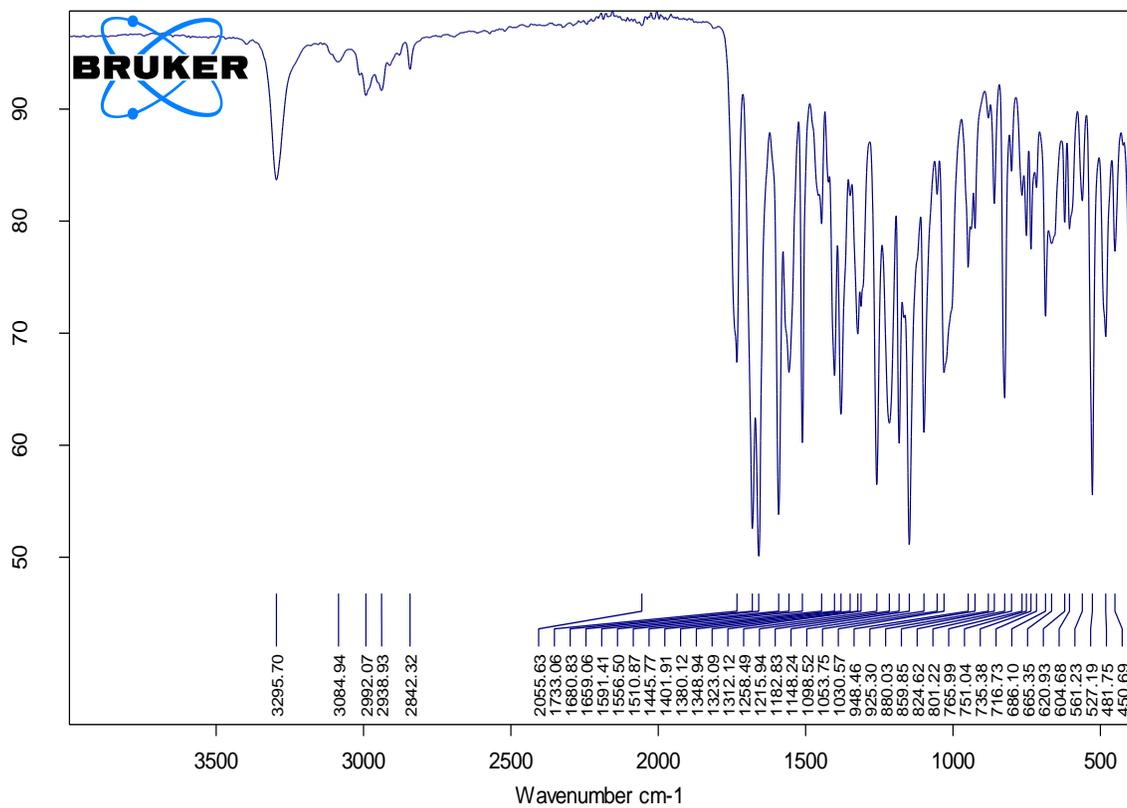
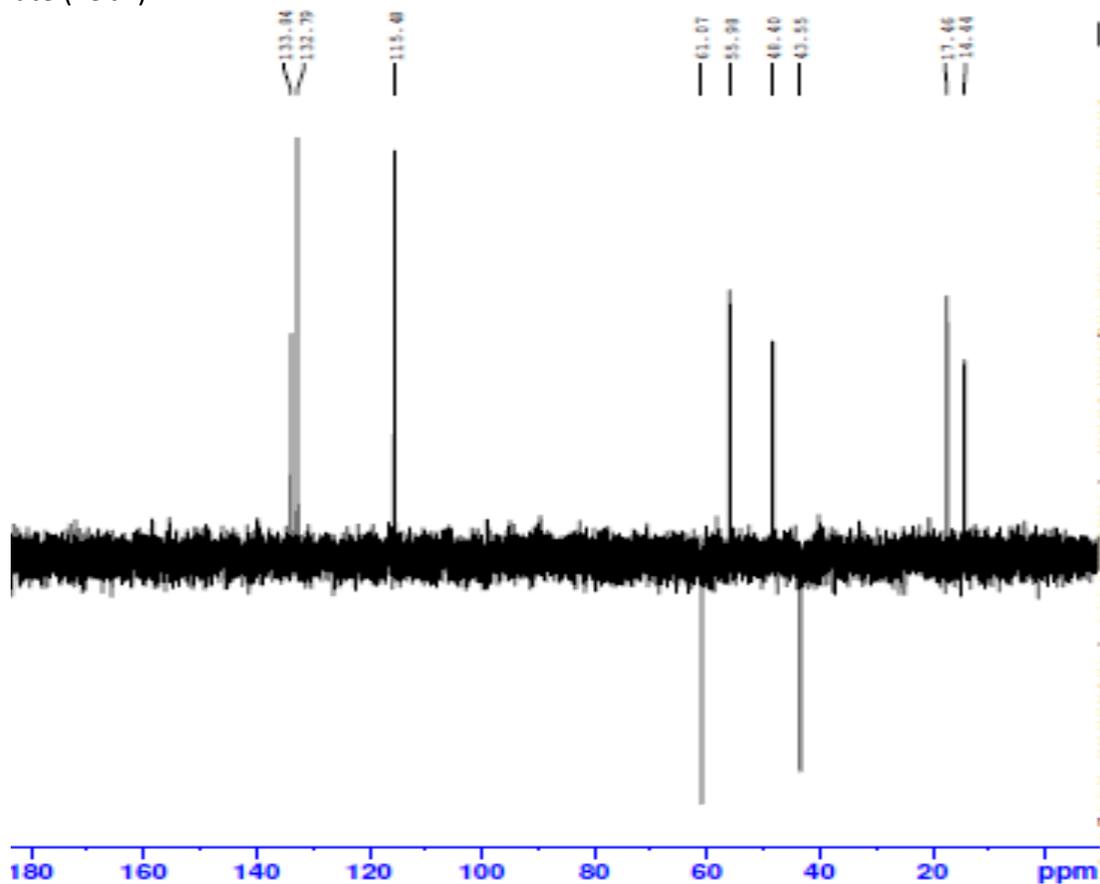
S29. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-benzylidene-2,4-dioxothiazolidin-3-yl) acetamido) alaninate (13bi)

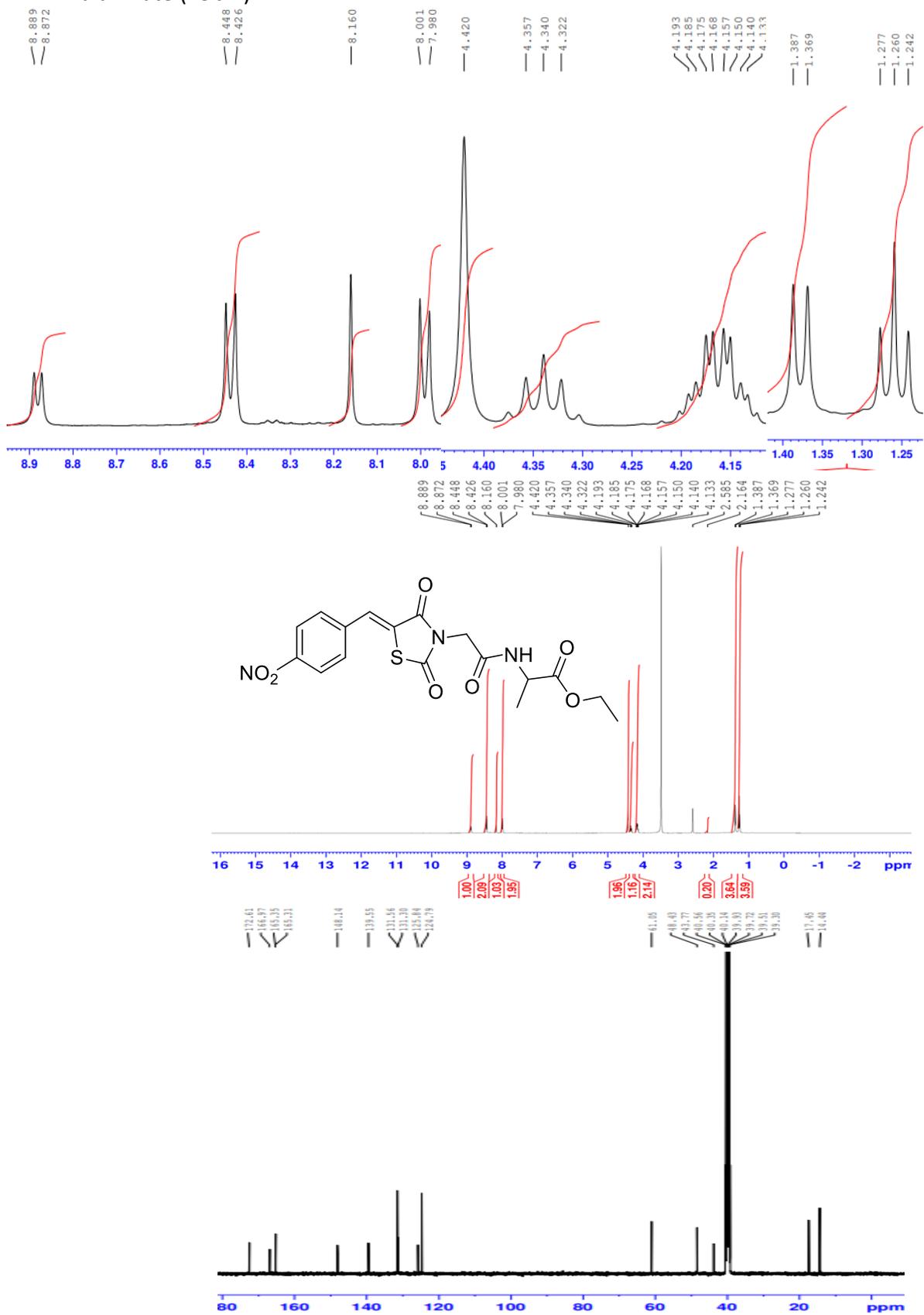
S30. DEPT-135 and IR spectra of Ethyl 2-(2-(5-benzylidene-2,4-dioxothiazolidin-3-yl) acetamido) alaninate (13bi)



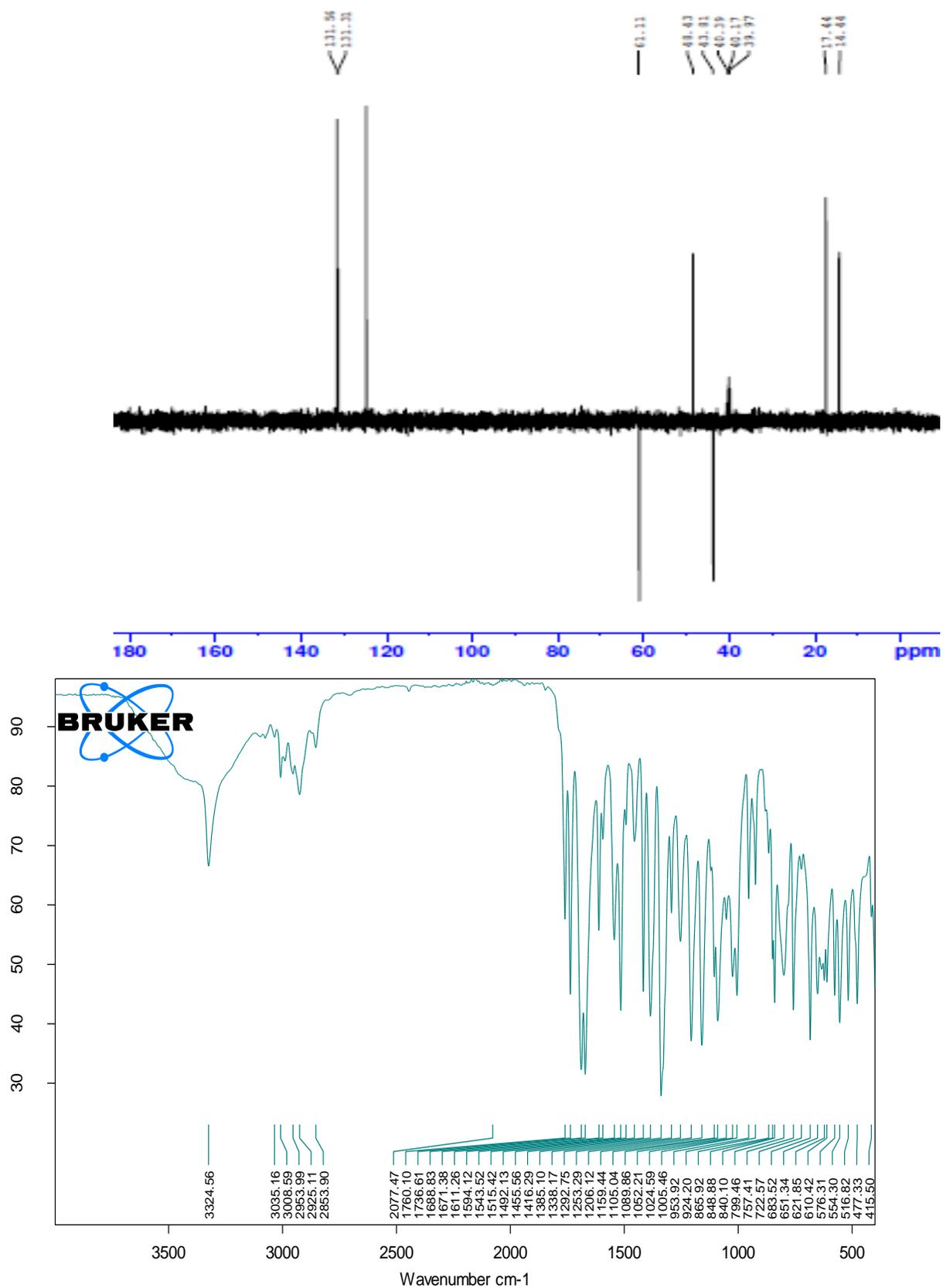
S31. ¹H NMR and ¹³C Spectra of Ethyl 2-(2-(5-(4-methoxybenzylidene)-2,4-dioxothiazolidin-3-yl) acetamido) alaninate (**13bii**)

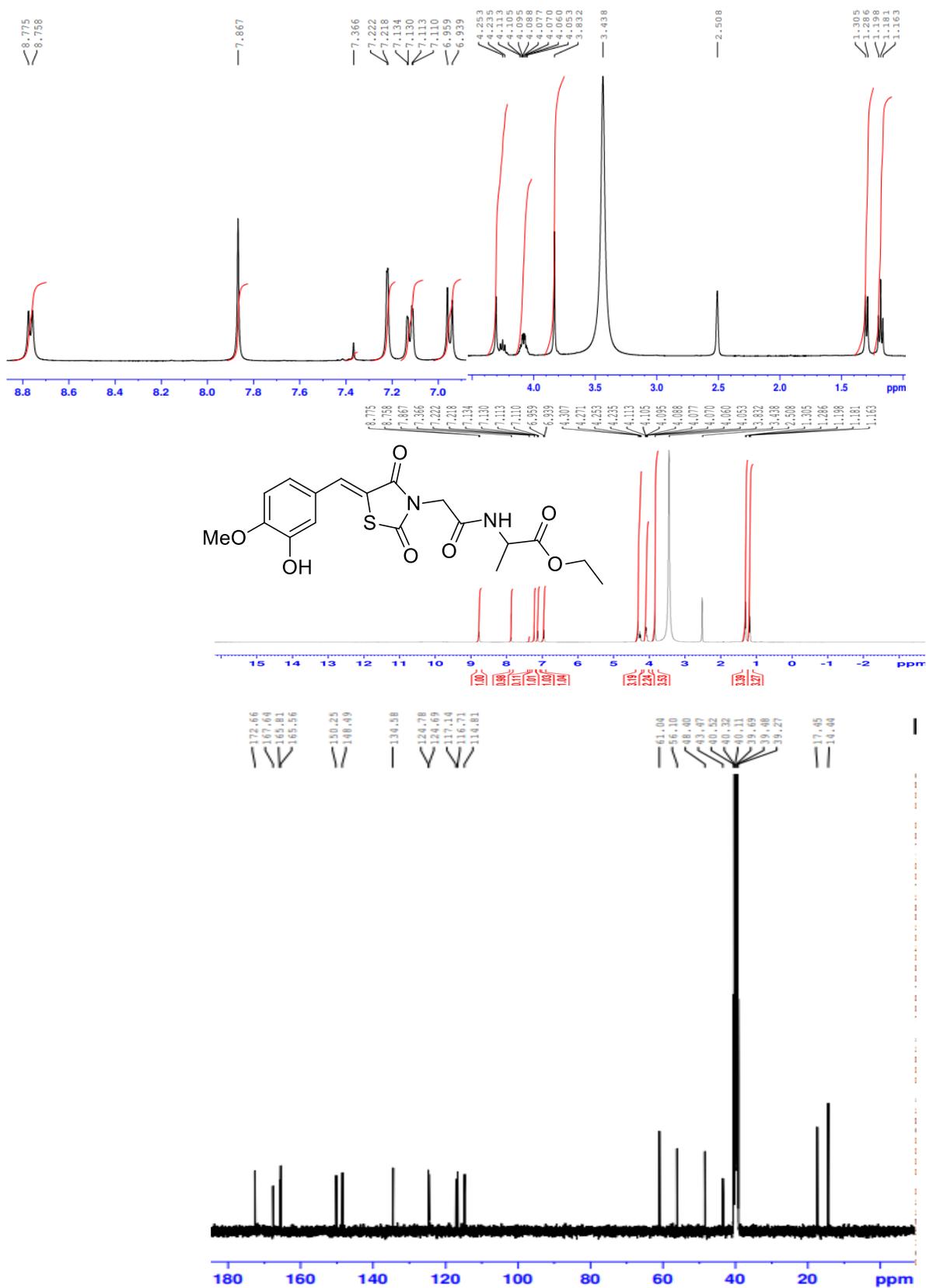
S32. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(4-methoxybenzylidene)-2,4-dioxothiazolidin-3yl) acetamido) alaninate (**13bii**)



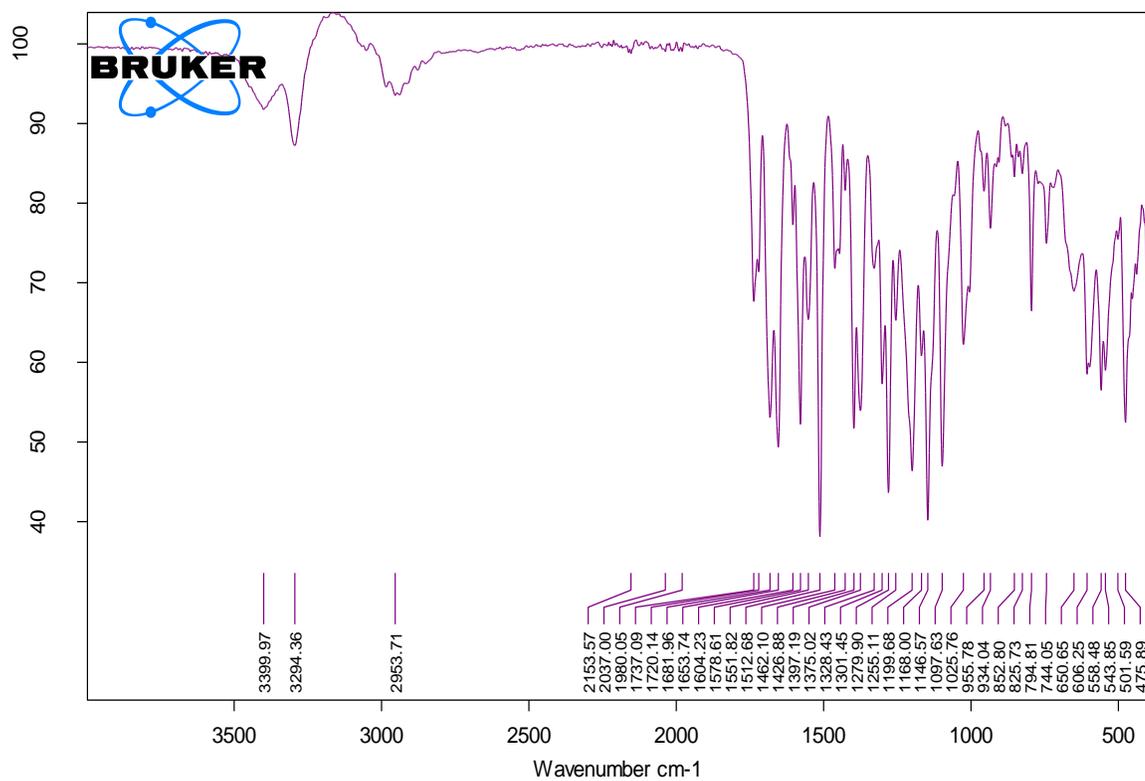
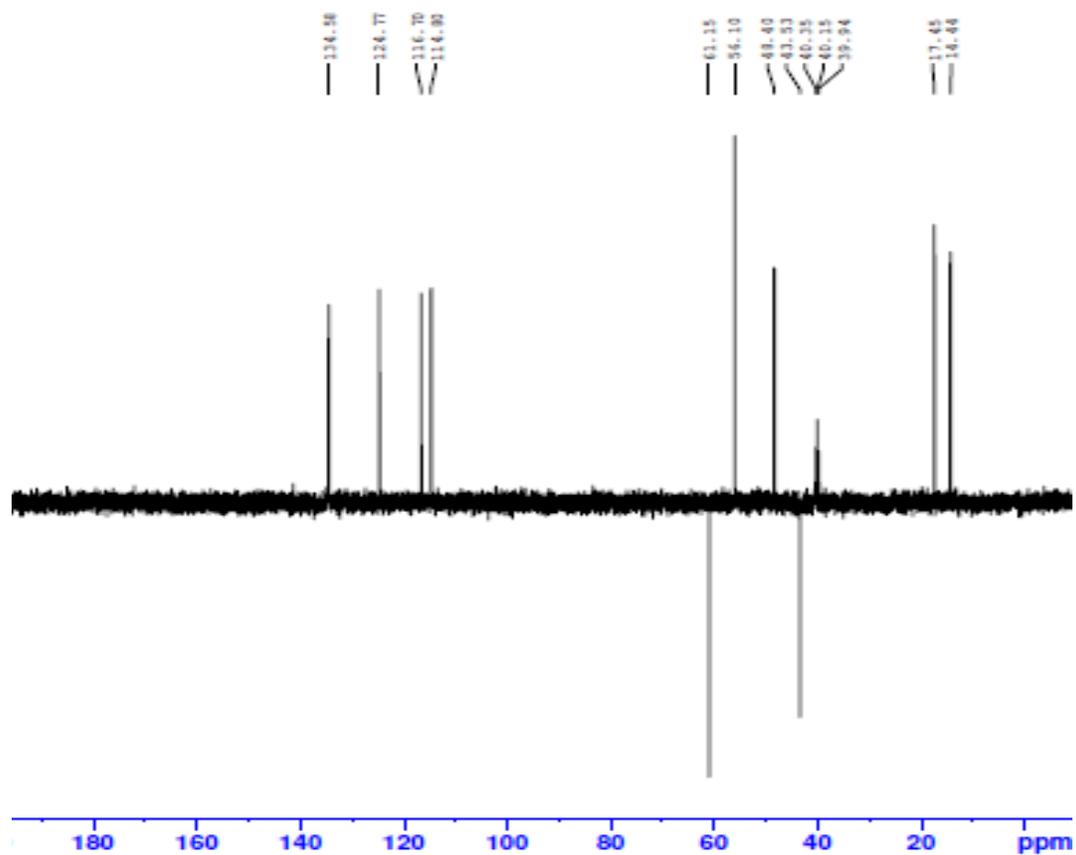
S33. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-(4-nitrobenzylidene)-2,4-dioxothiazolidin-3-yl) acetamido) alaninate (**13biii**)

S34. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(4-nitrobenzylidene)-2,4-dioxothiazolidin-3-yl) acetamido) alaninate (**13biii**)

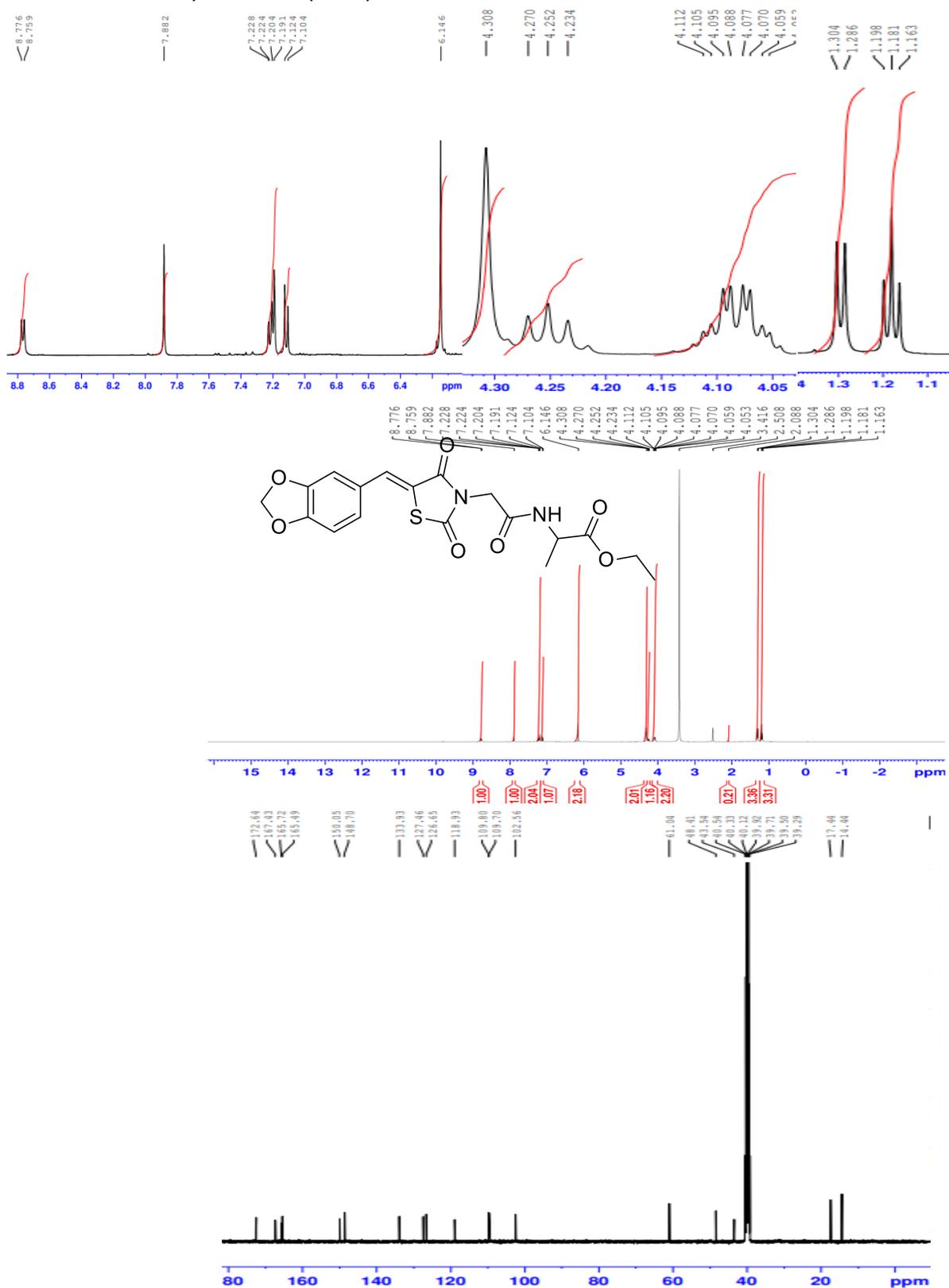


S35. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-(3-hydroxy-4-methoxybenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido) alaninate (**13biv**)

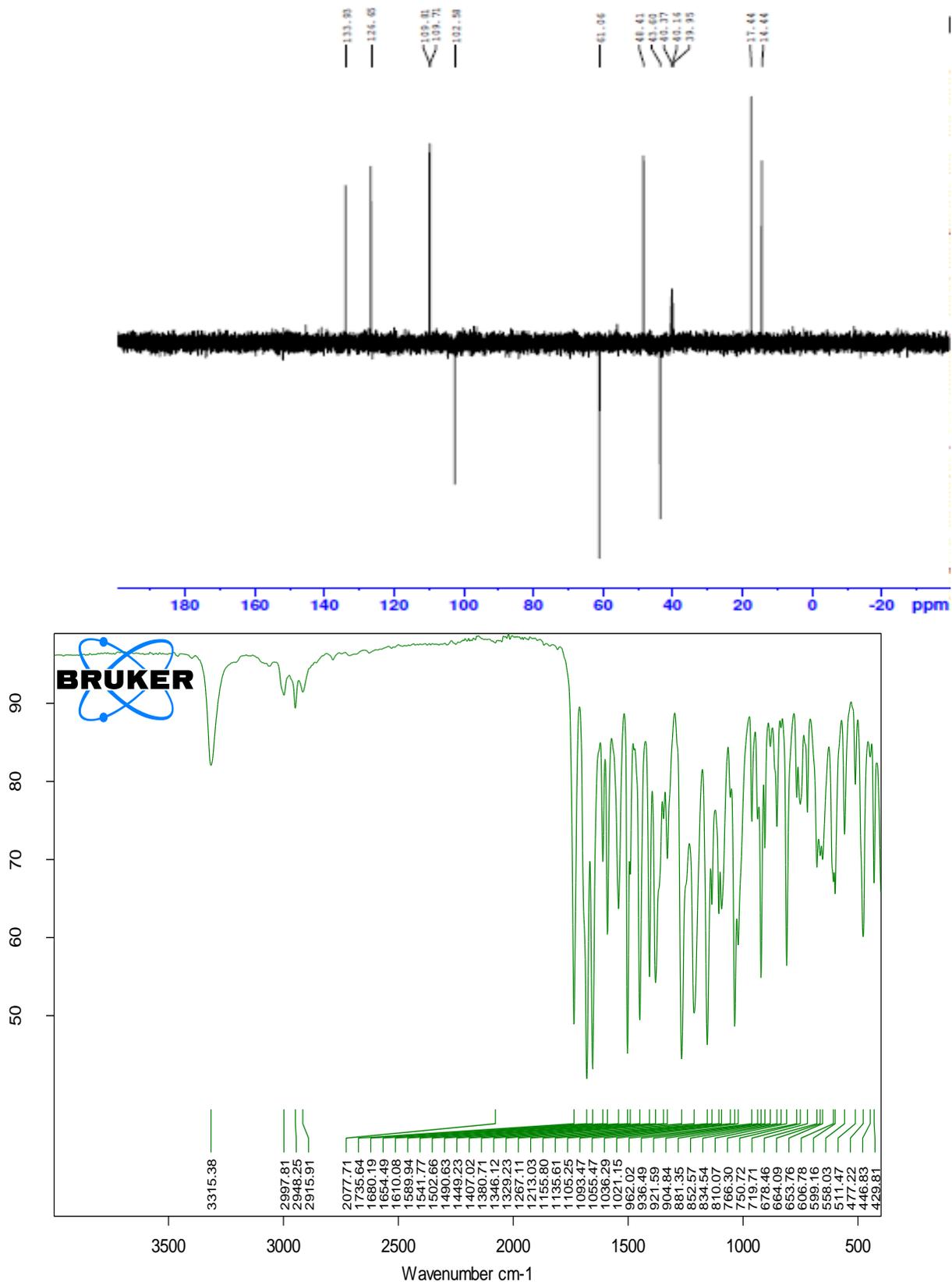
S36. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(3-hydroxy-4-methoxybenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido) alaninate (**13biv**)



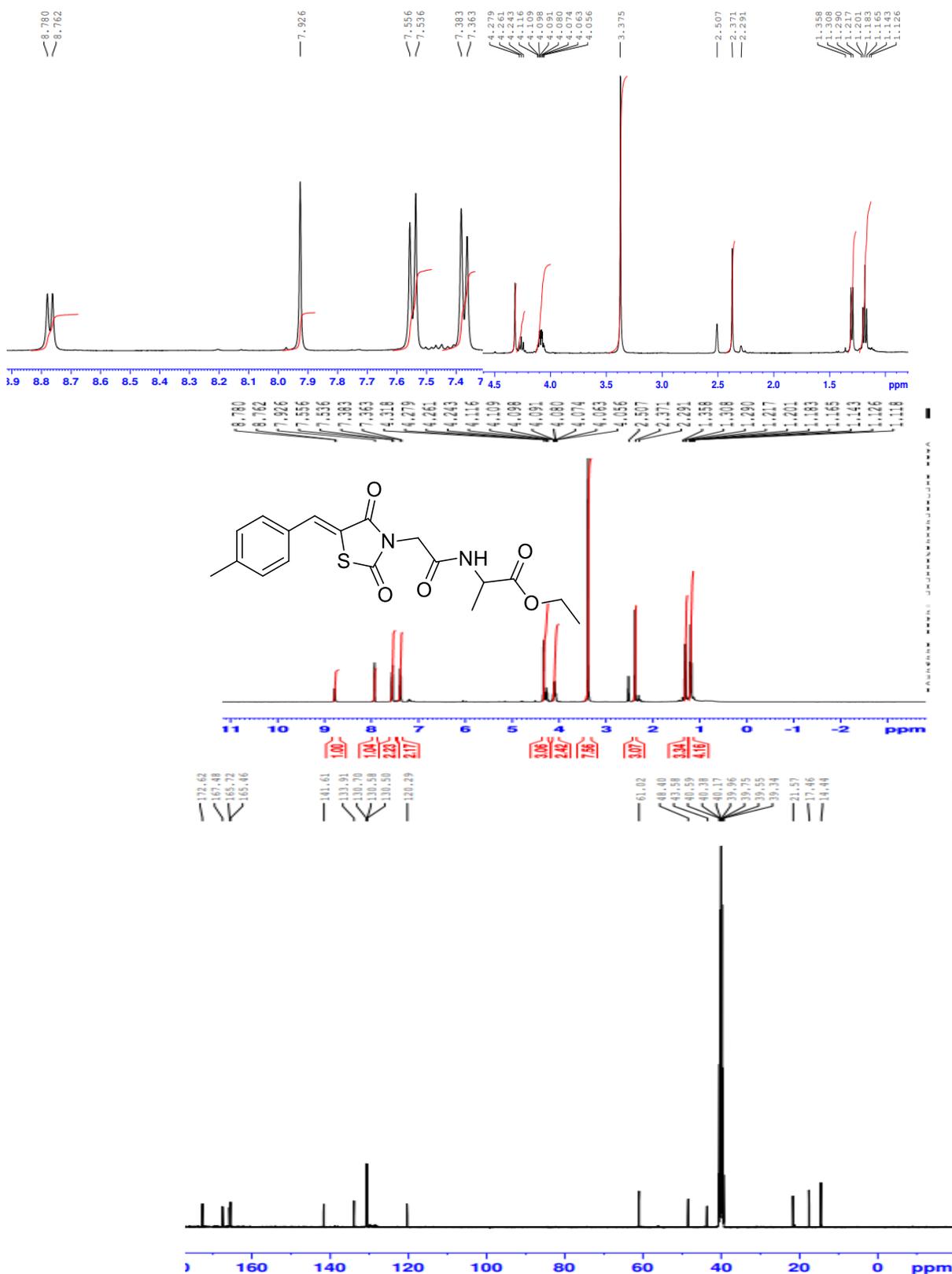
S37. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-(benzo[d][1,3]dioxol-5-ylmethylene)-2,4-dioxothiazolidin-3-yl)acetamido) alaninate (**13bv**)



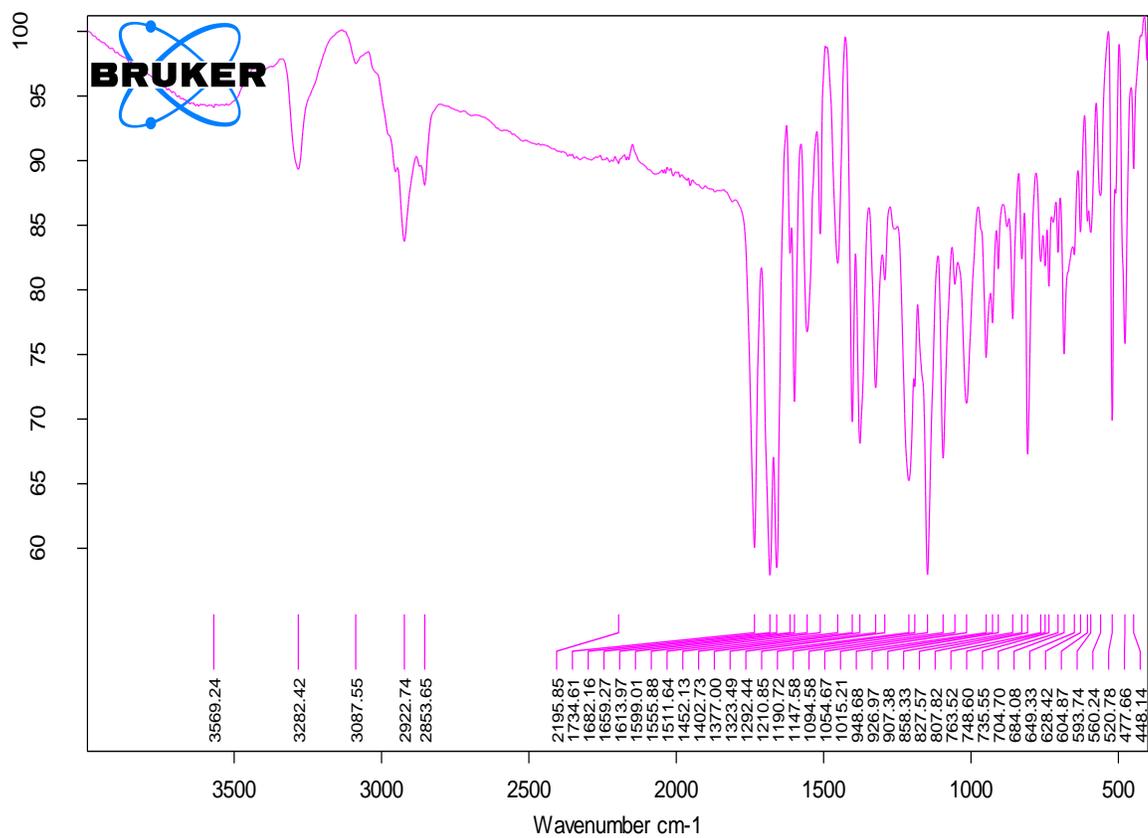
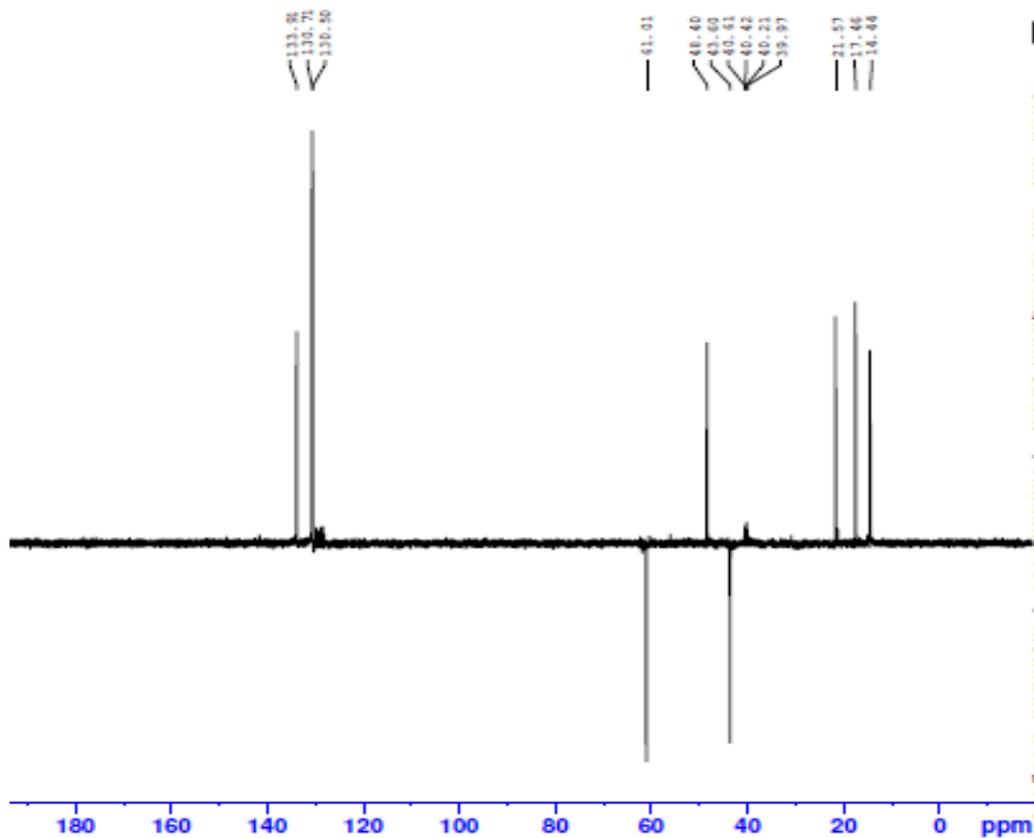
S38. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(benzo[d][1,3] dioxol-5-ylmethylene)-2,4-dioxothiazolidin-3-yl) acetamido) alaninate (**13bv**)

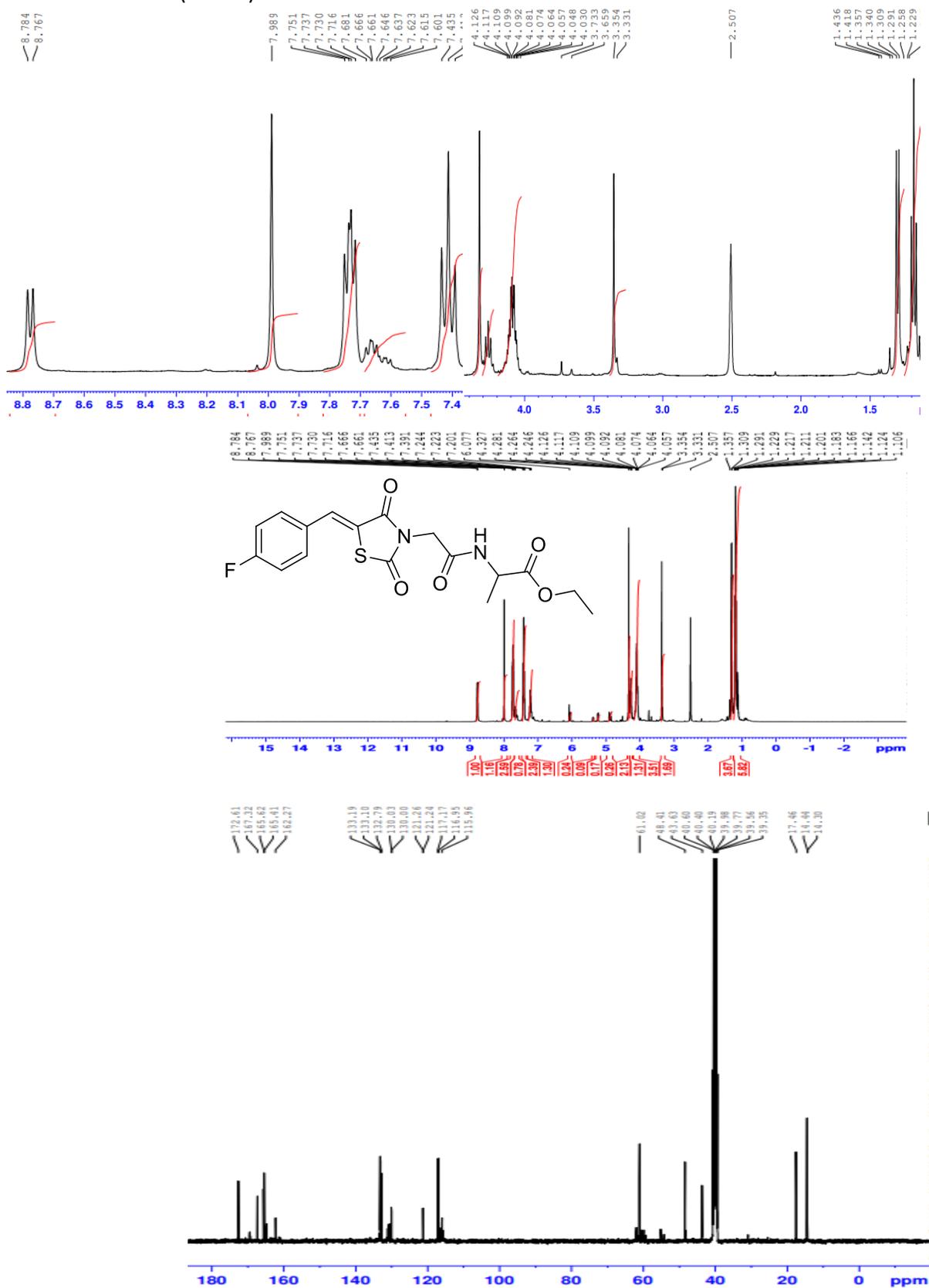


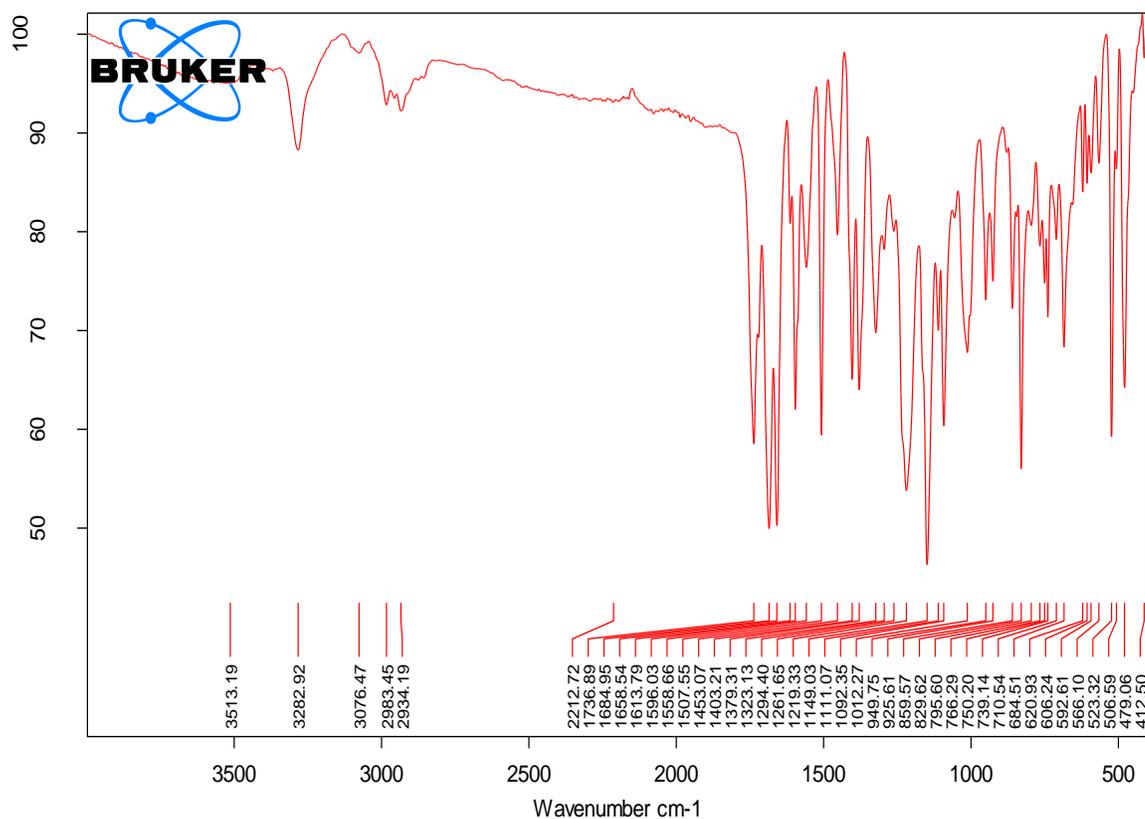
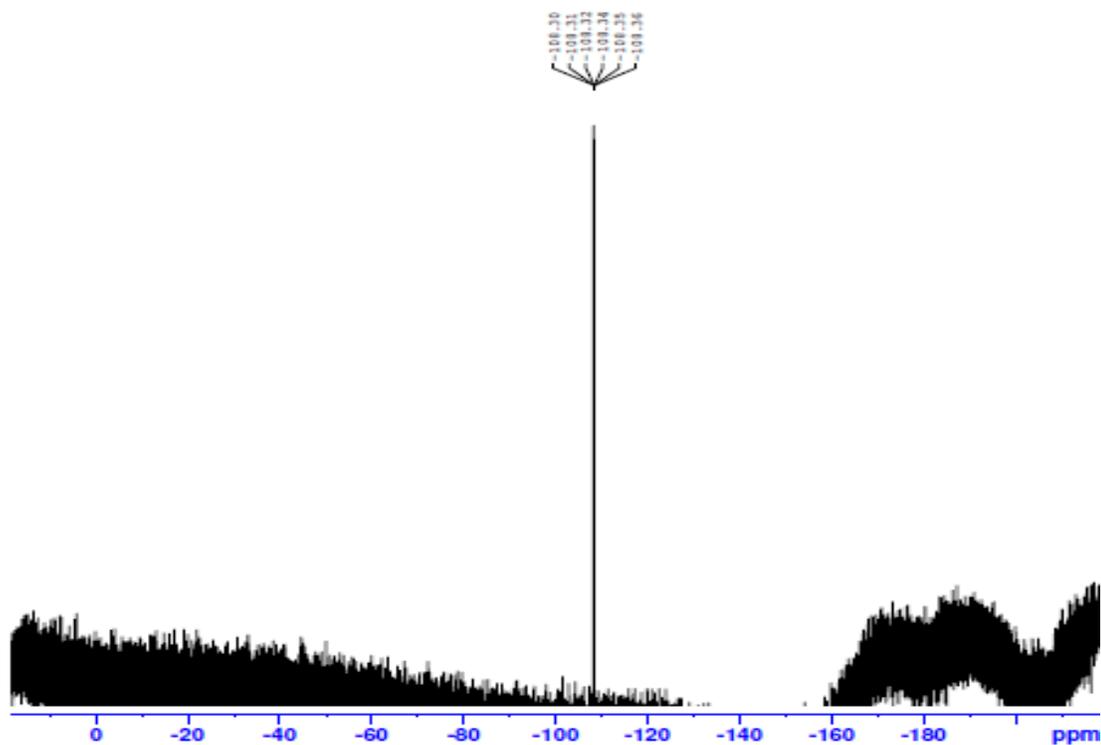
S39. ¹H and ¹³C NMR spectra of Ethyl 2-(2-(5-(4-methylbenzylidene)-2,4dioxothiazolidin-3-yl) acetamido) alaninate (**13bvi**)

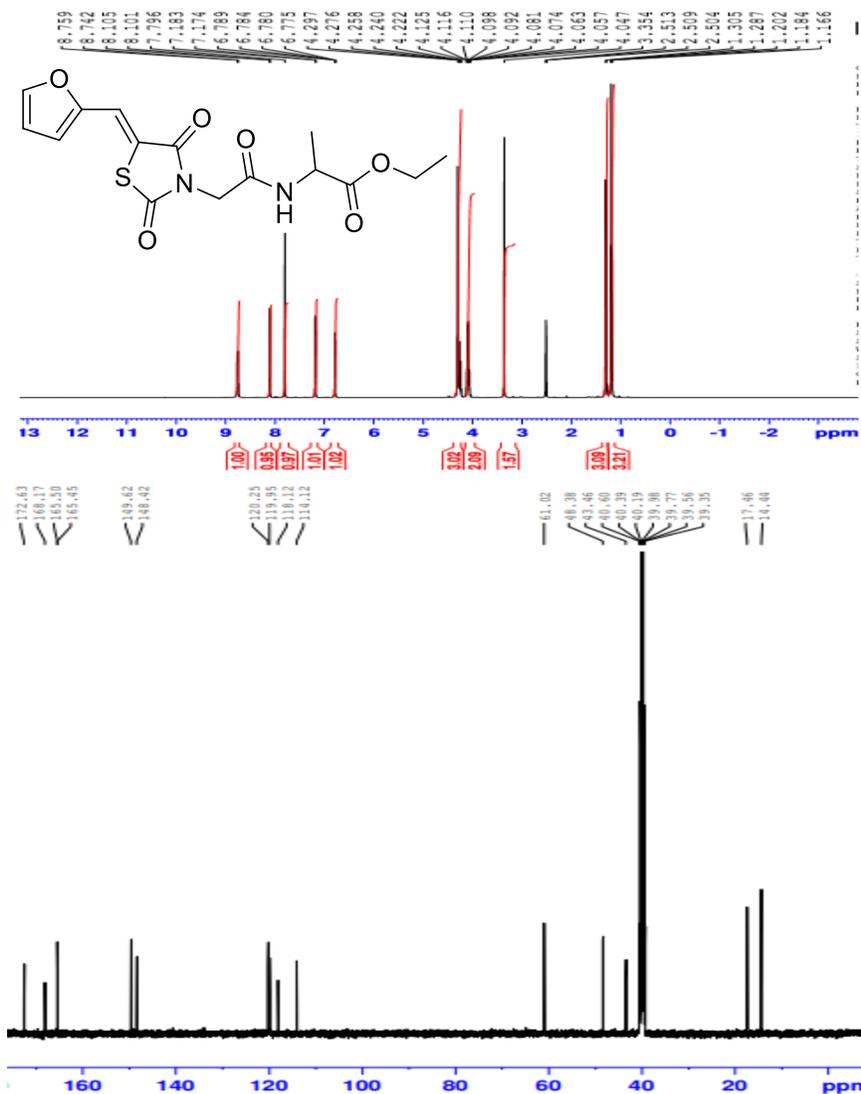
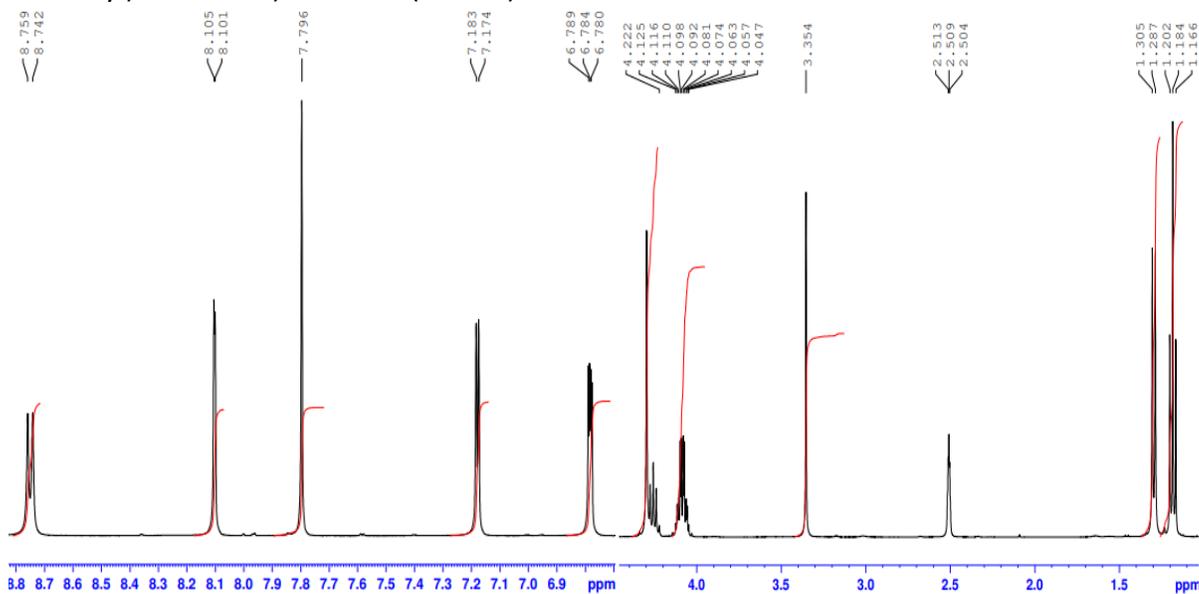


S40. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(4-methylbenzylidene)-2,4-dioxothiazolidin-3-yl) acetamido) alaninate (**13bvi**)

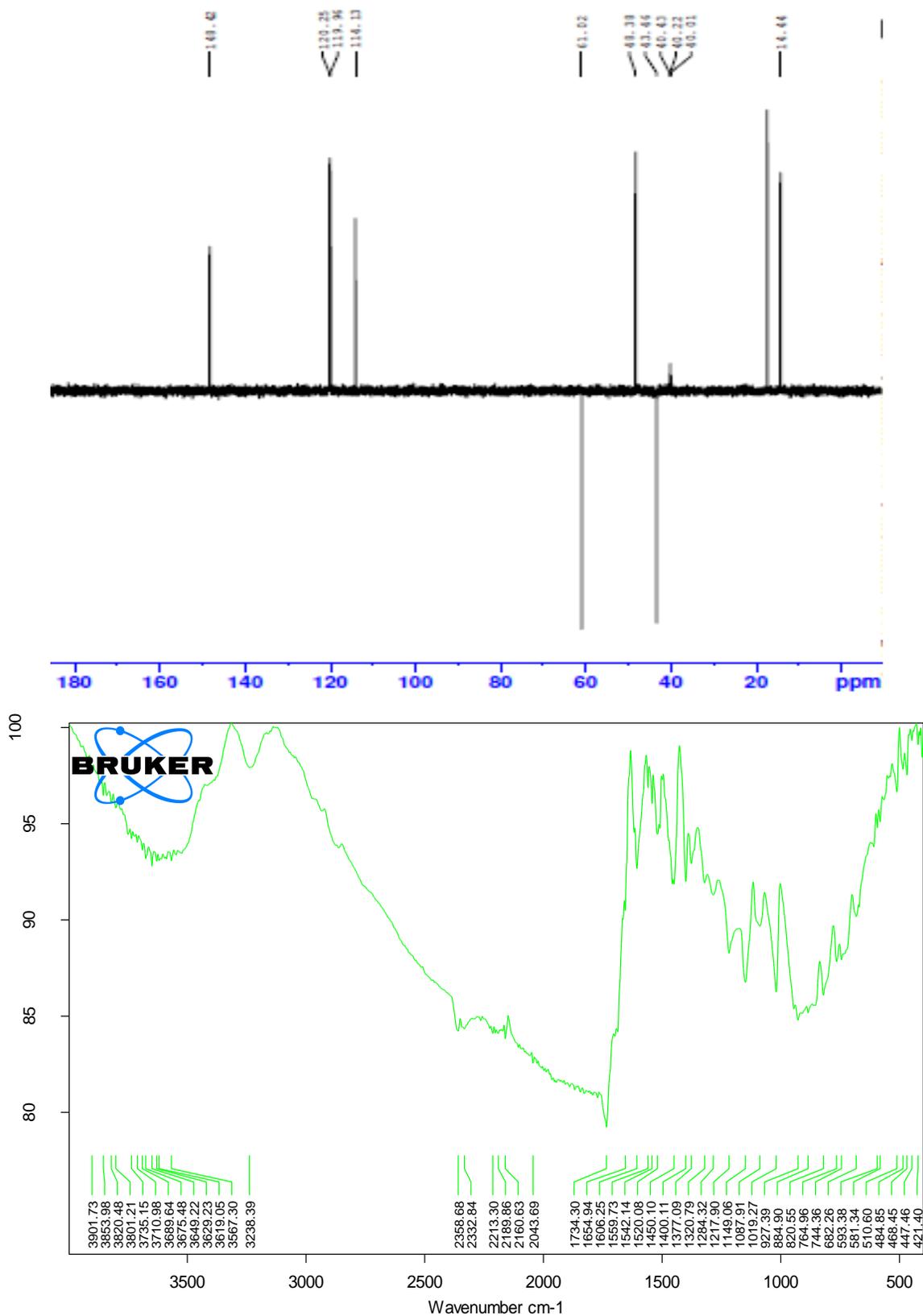


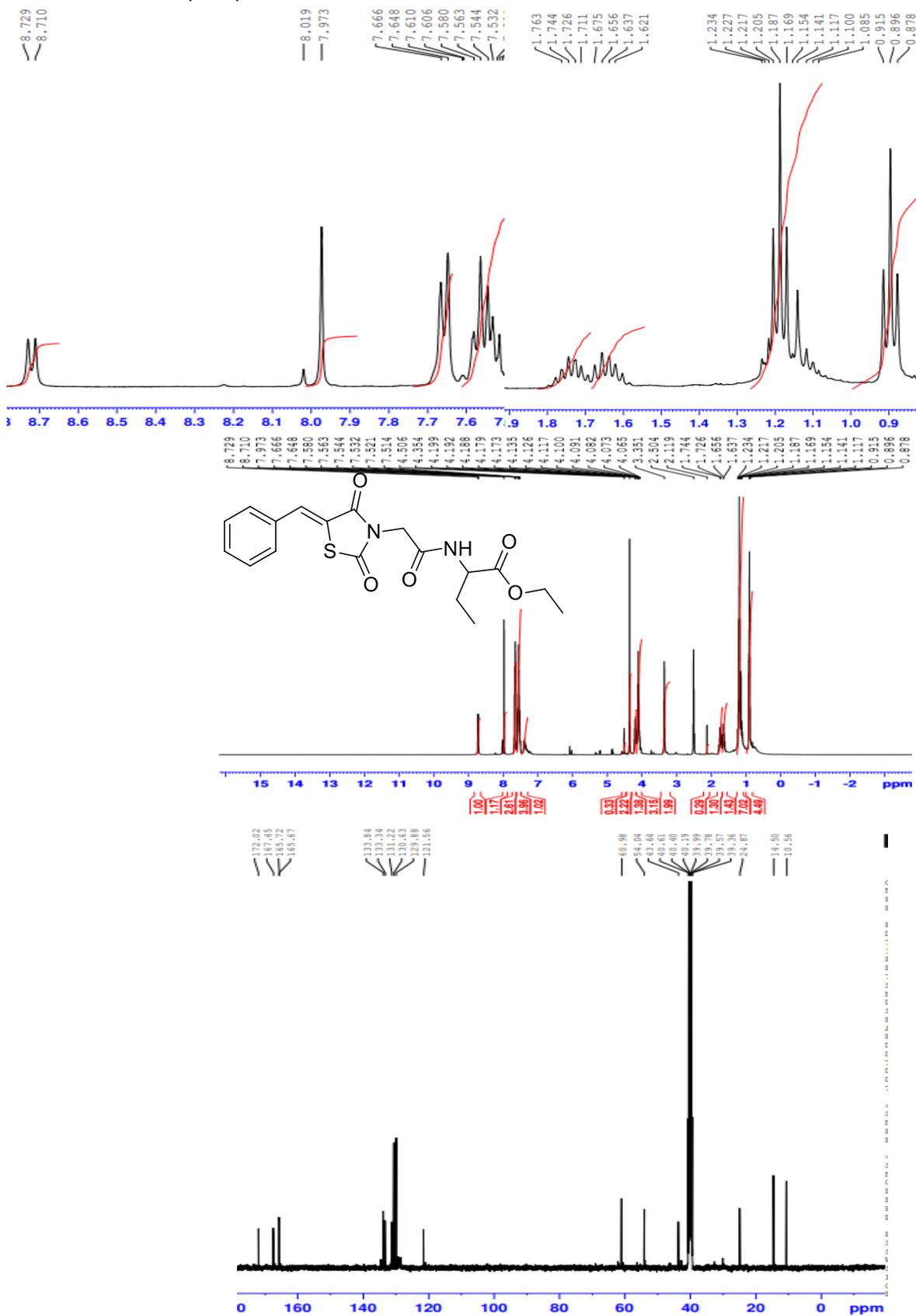
S41. ¹H and ¹³C NMR spectra of Ethyl 2-(2-(5-(4-fluorobenzylidene)-2,4-dioxothiazolidin-3-yl) acetamido) alaninate (**13bvii**)

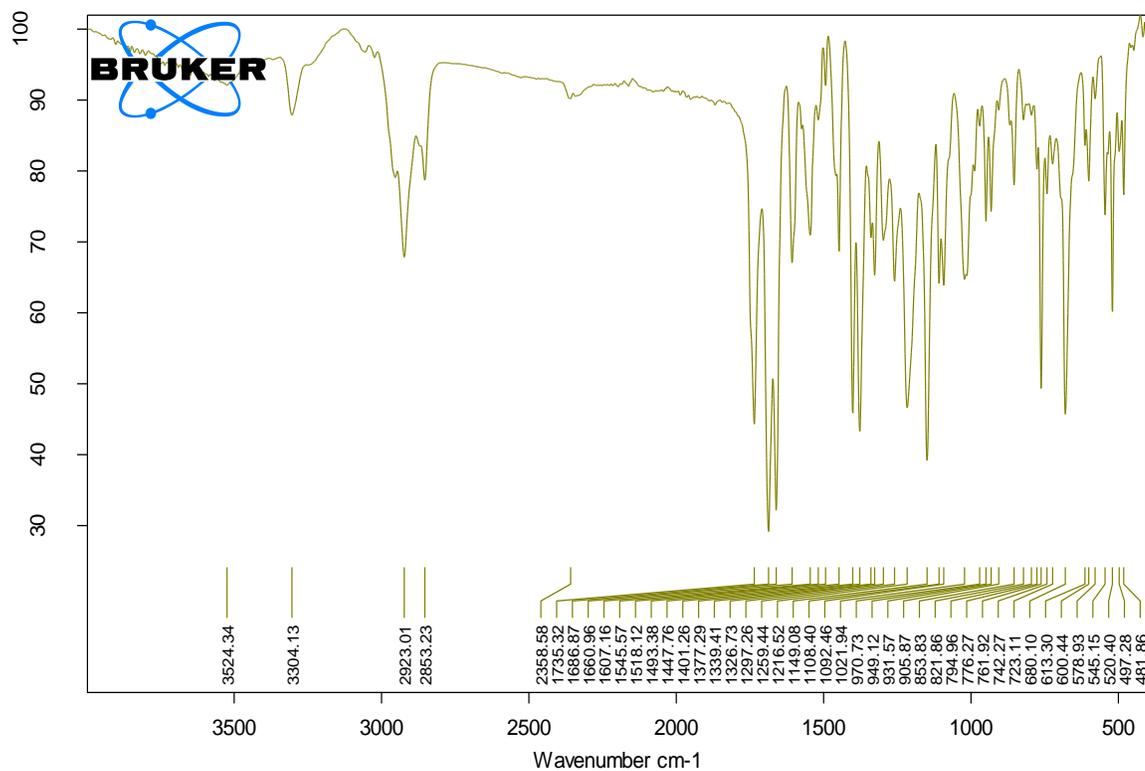
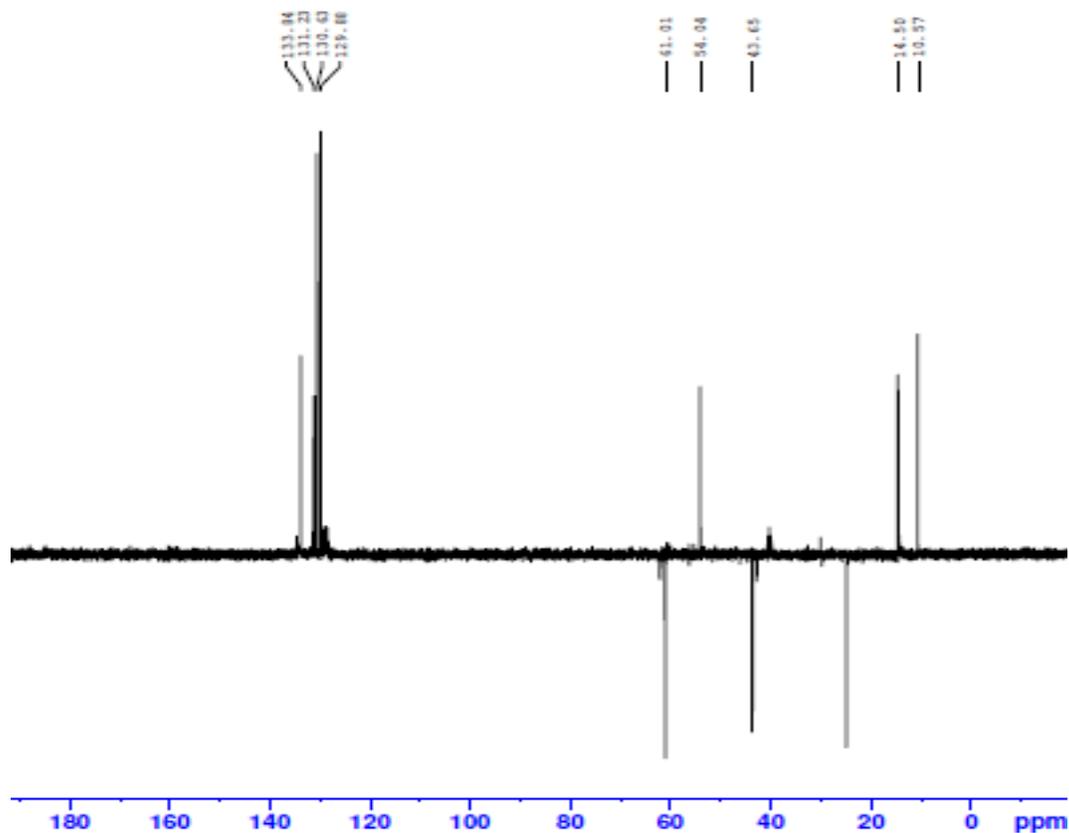
S42. ¹⁹F and IR spectra of Ethyl 2-(2-(5-(4-fluorobenzylidene)-2,4-dioxothiazolidin-3-yl) acetamido) alaninate (13bvii)

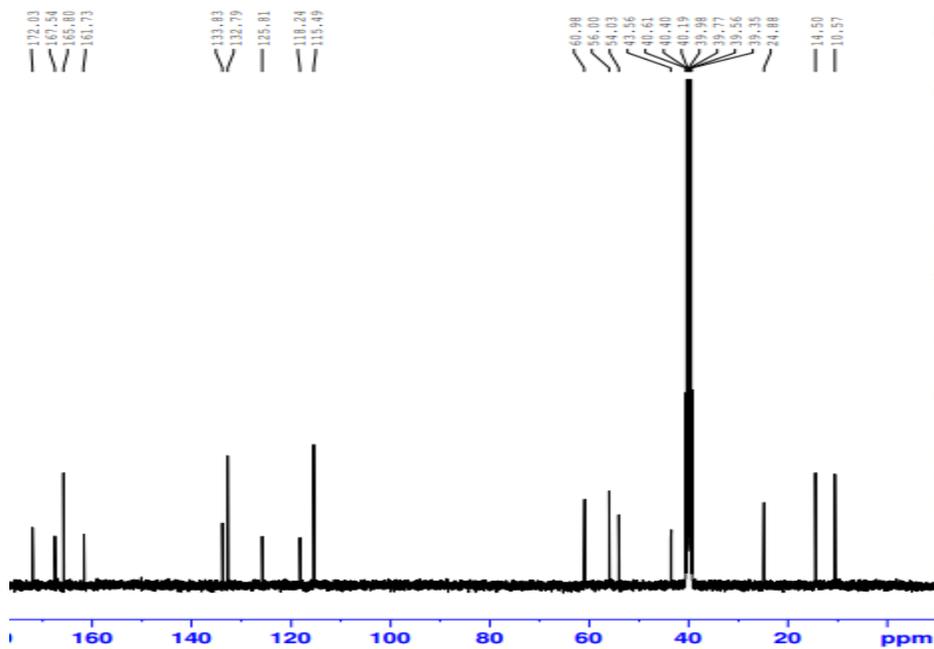
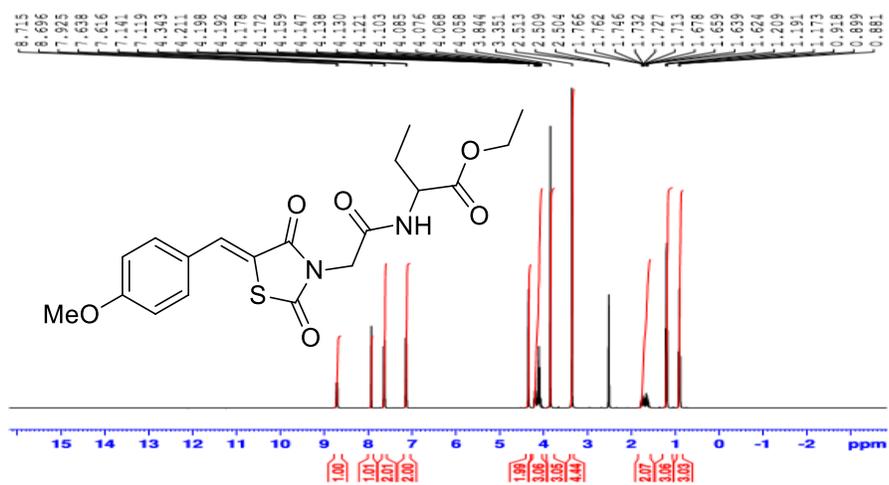
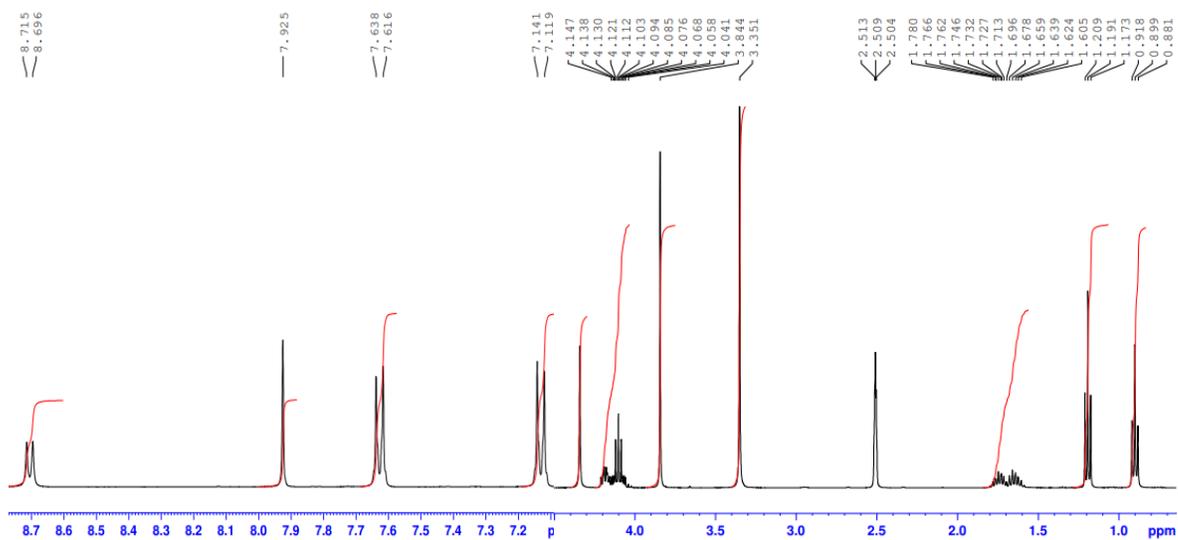
S43. ^1H and ^{13}C NMR spectra Ethyl 2-(2-(5-(furan-2-ylmethylene)-2,4-dioxothiazolidin-3-yl)acetamido)alaninate (**13bviii**)

S44. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(furan-2-ylmethylene)-2,4-dioxothiazolidin-3-yl)acetamido)alaninate (**13bviii**)

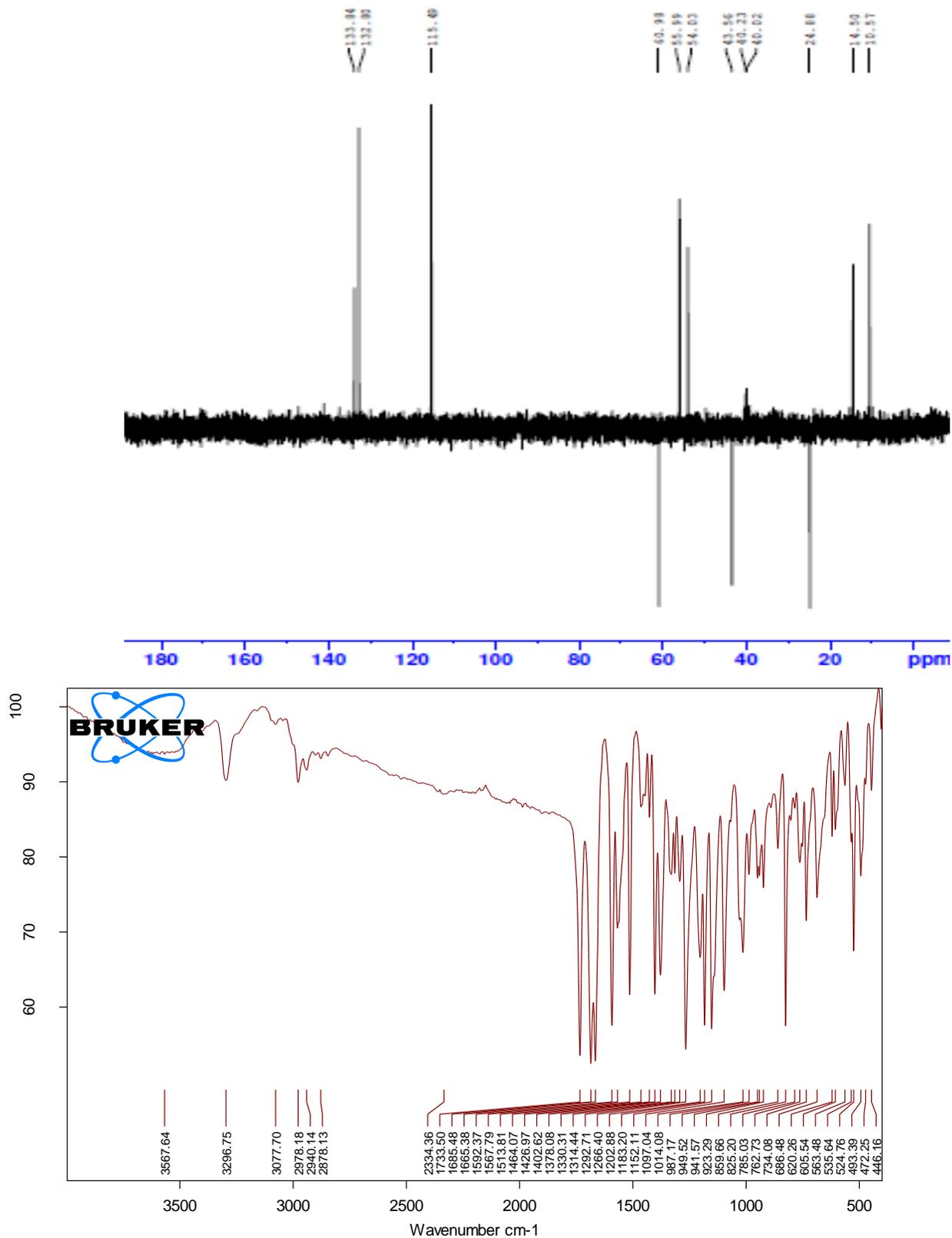


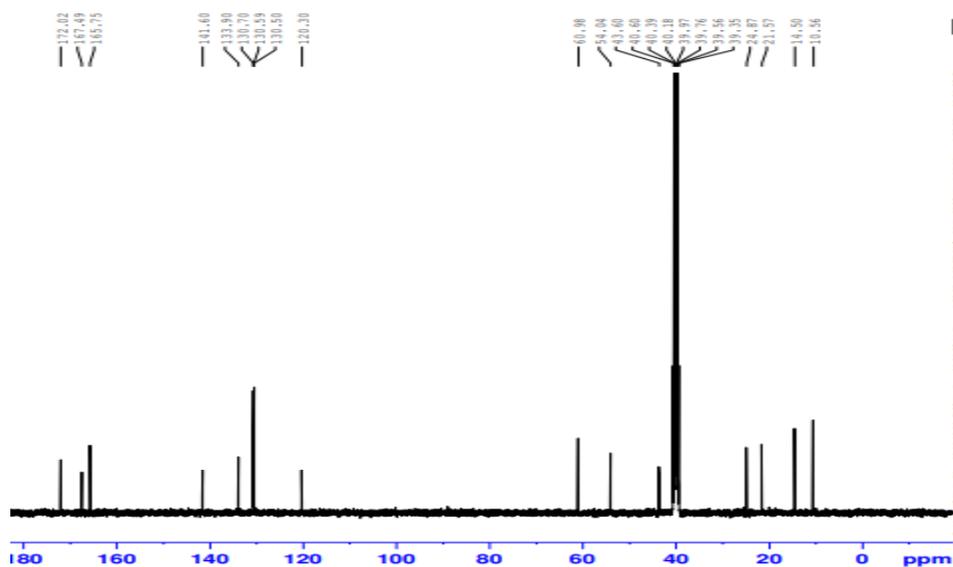
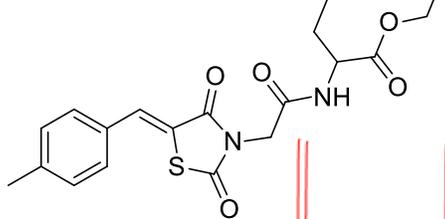
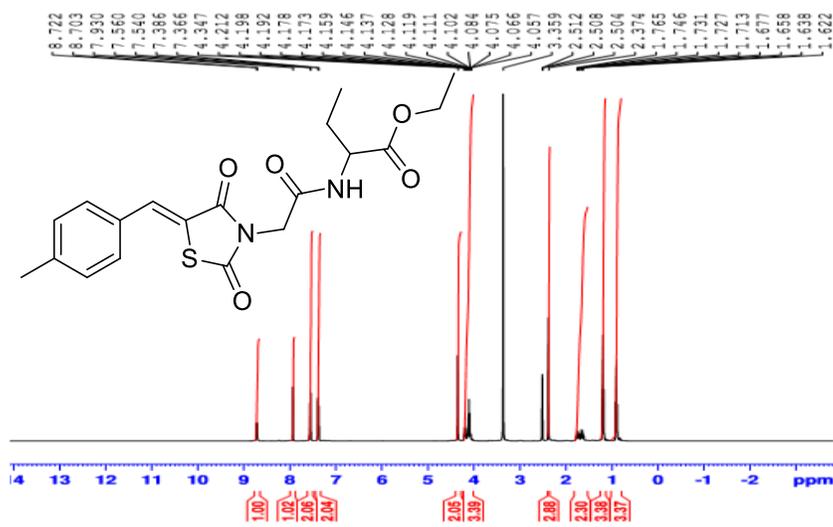
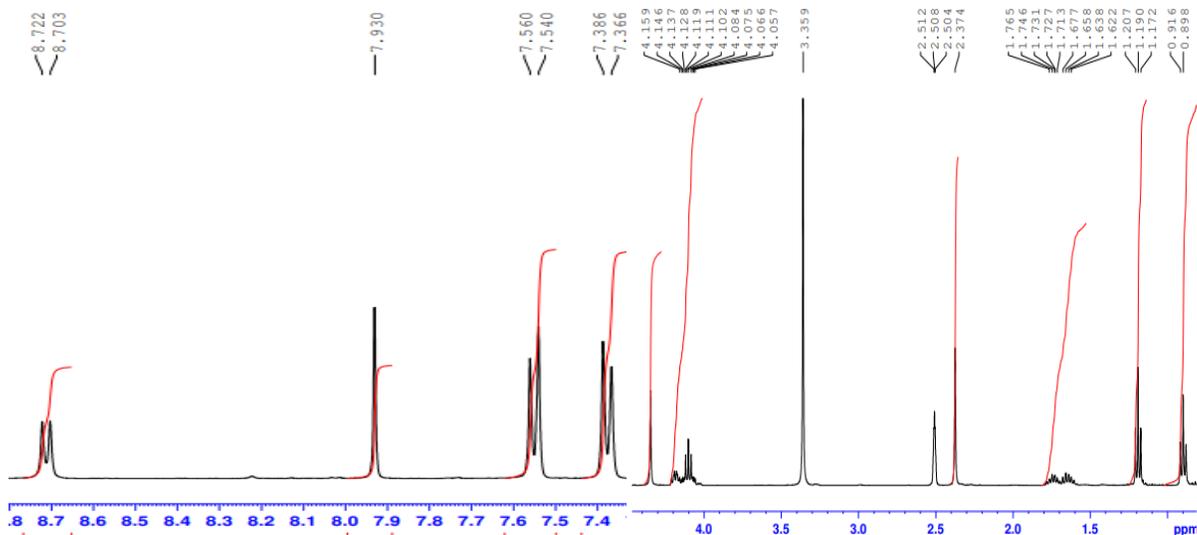
S45. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-benzylidene-2,4-dioxothiazolidin-3-yl) acetamido) butanoate(**13ci**)

S46. DEPT-135 and IR spectra of Ethyl 2-(2-(5-benzylidene-2,4-dioxothiazolidin-3-yl) acetamido) butanoate(**13ci**)

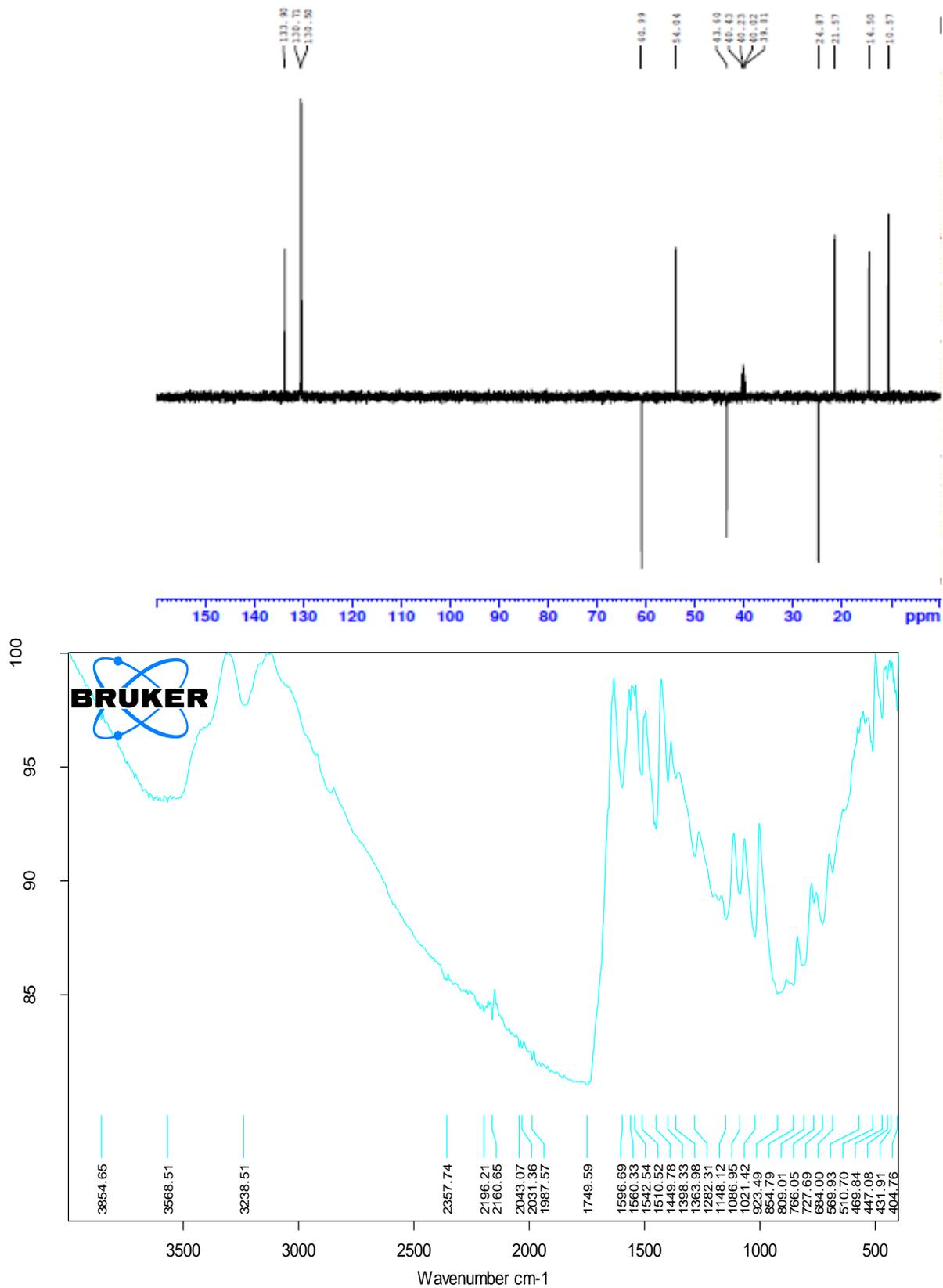
S47. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-(4-methoxybenzylidene)-2,4-dioxothiazolidin-3-yl) acetamido) butanoate (**13cii**)

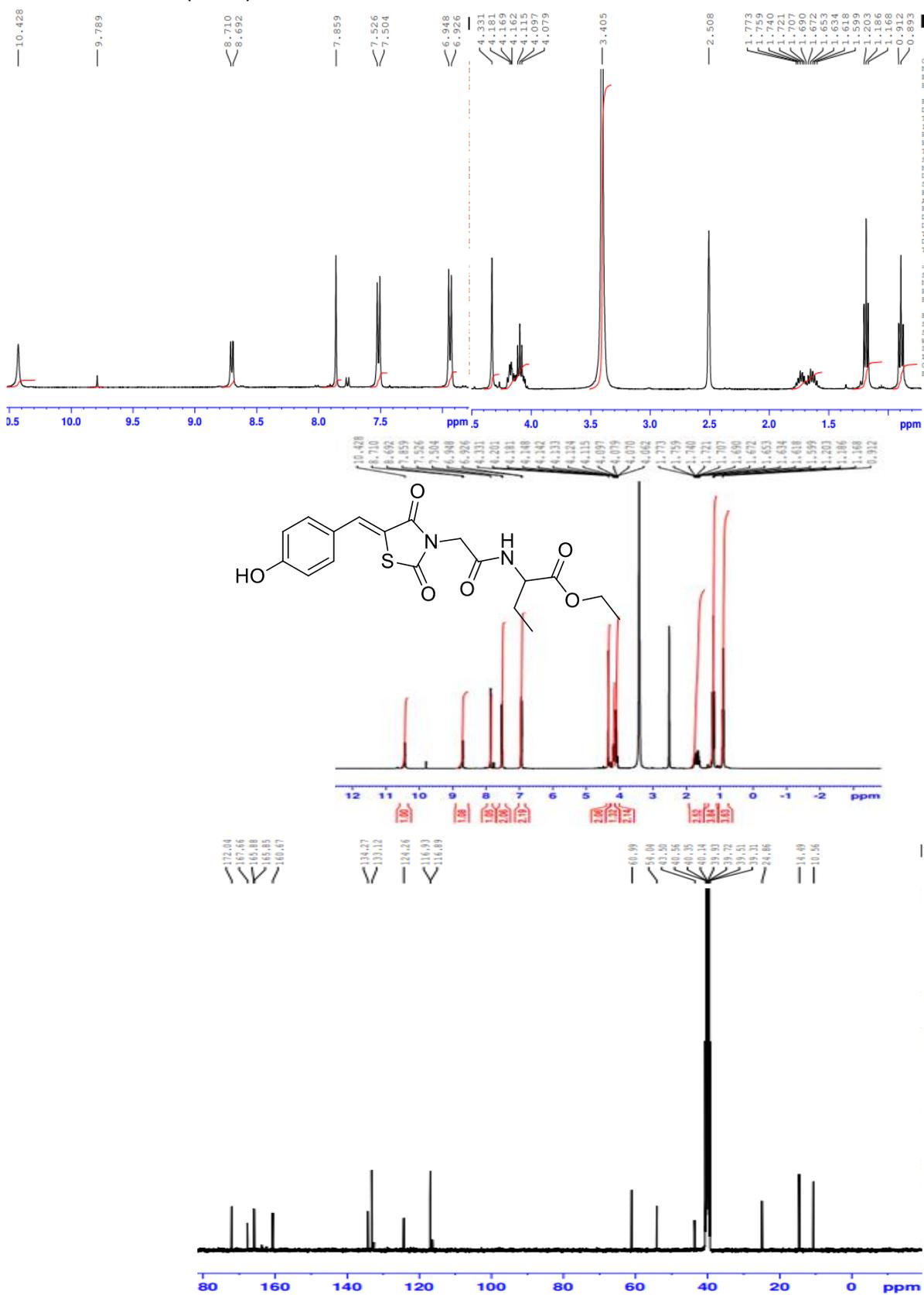
S48. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(4-methoxybenzylidene)-2,4-dioxothiazolidin-3-yl) acetamido) butanoate(**13cii**)

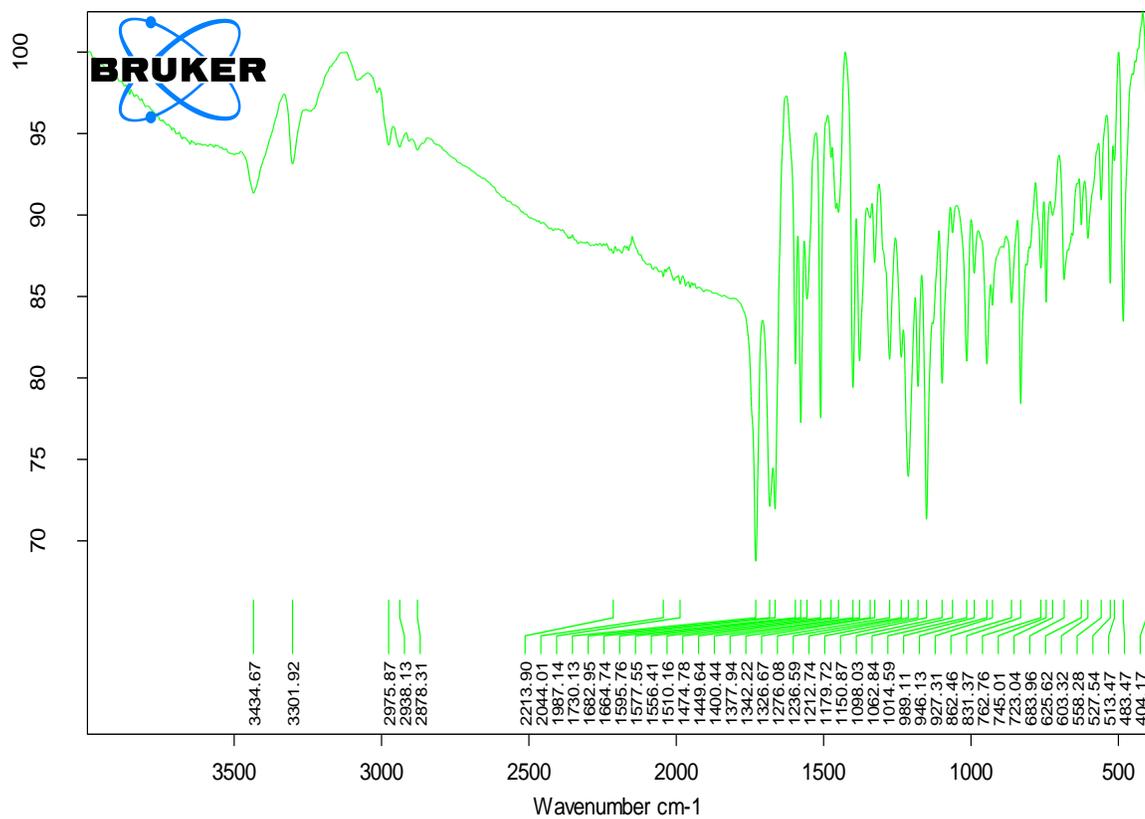
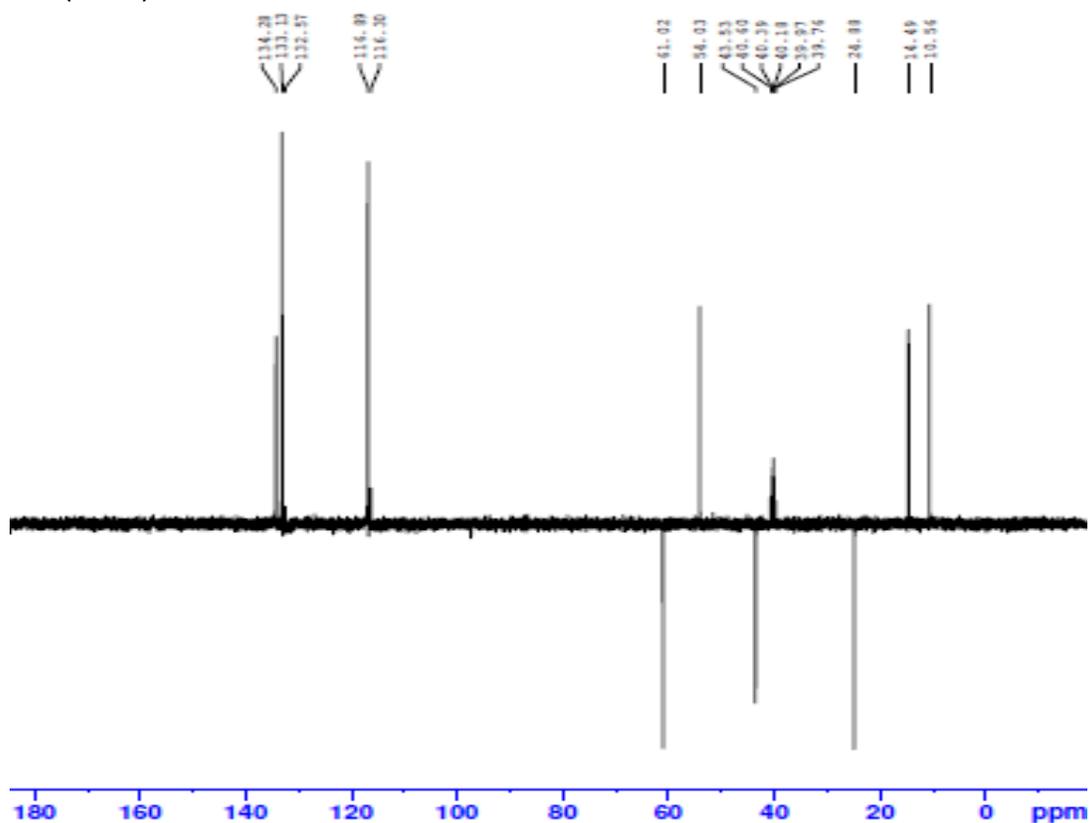


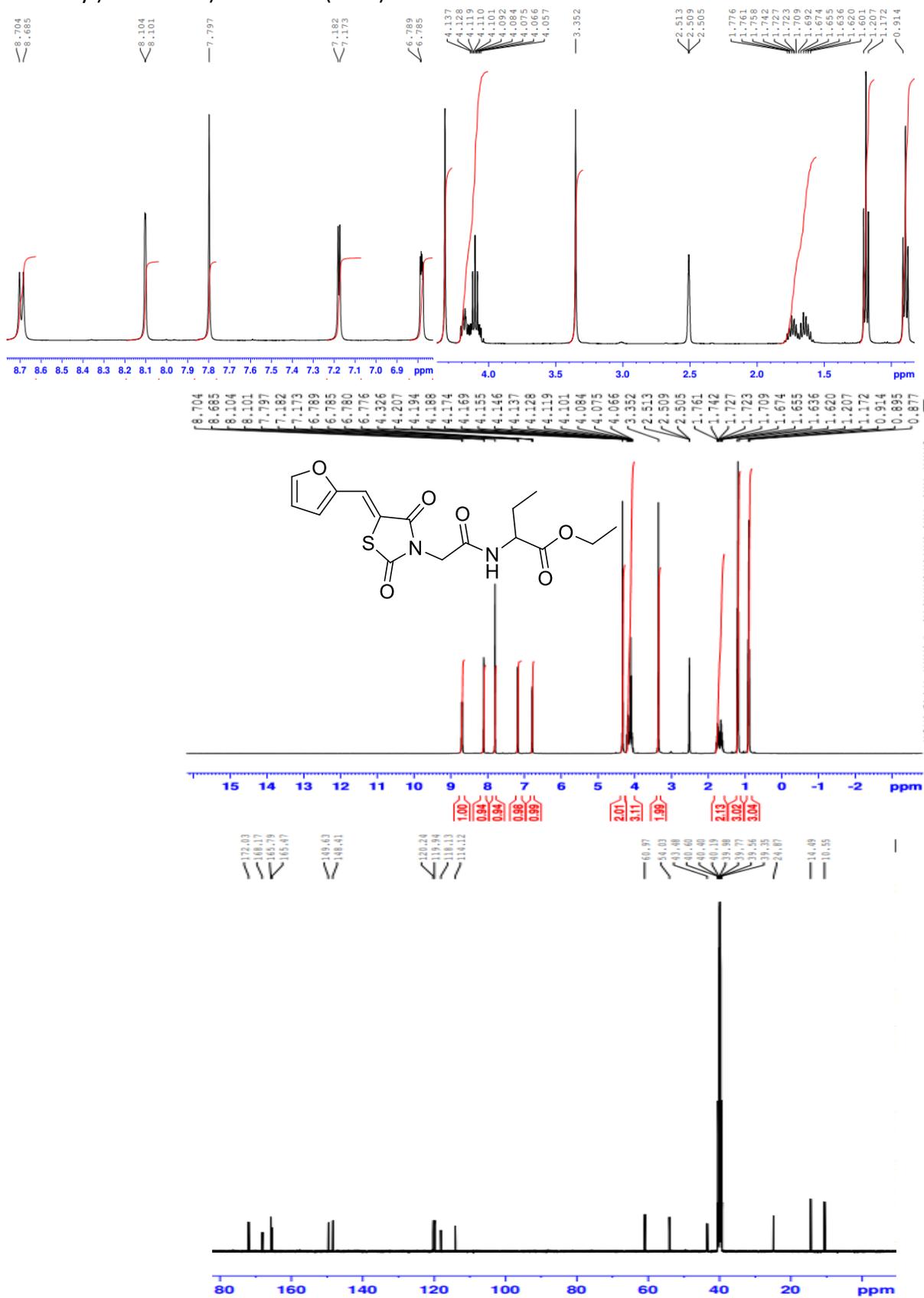
S49. ¹H and ¹³C NMR spectra of Ethyl 2-(2-(5-(4-methylbenzylidene)-2,4dioxothiazolidin-3-yl) acetamido) butanoate(13ciii)

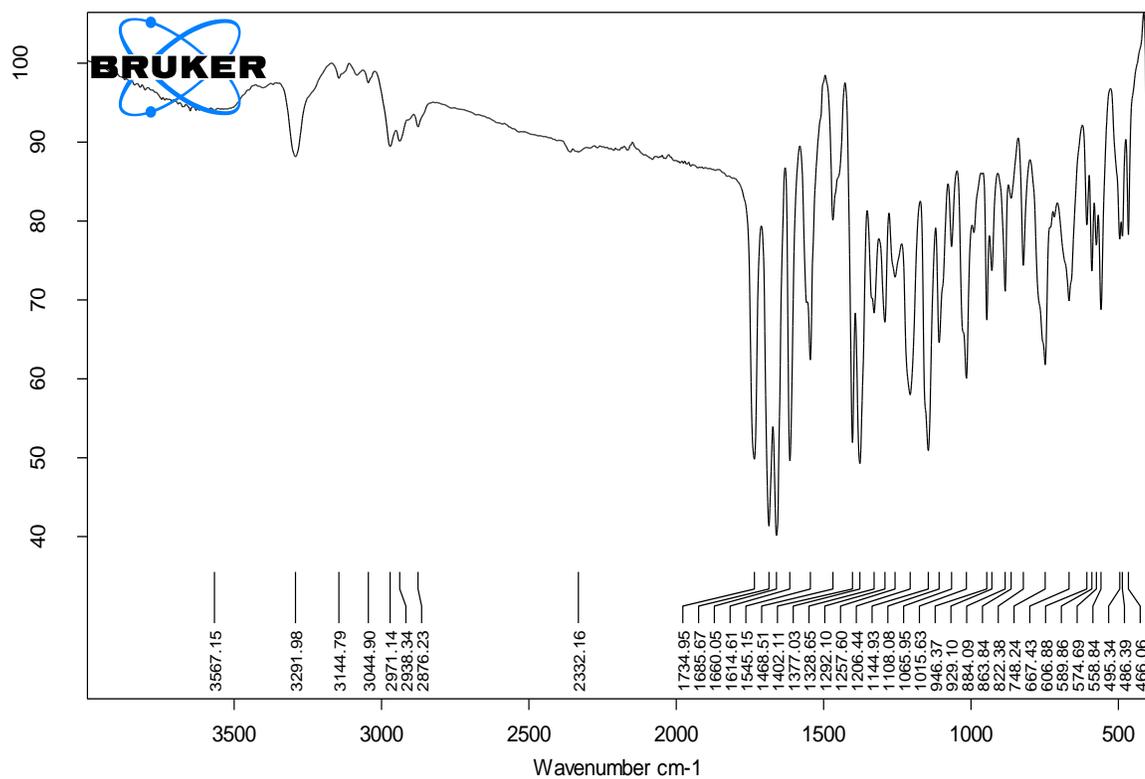
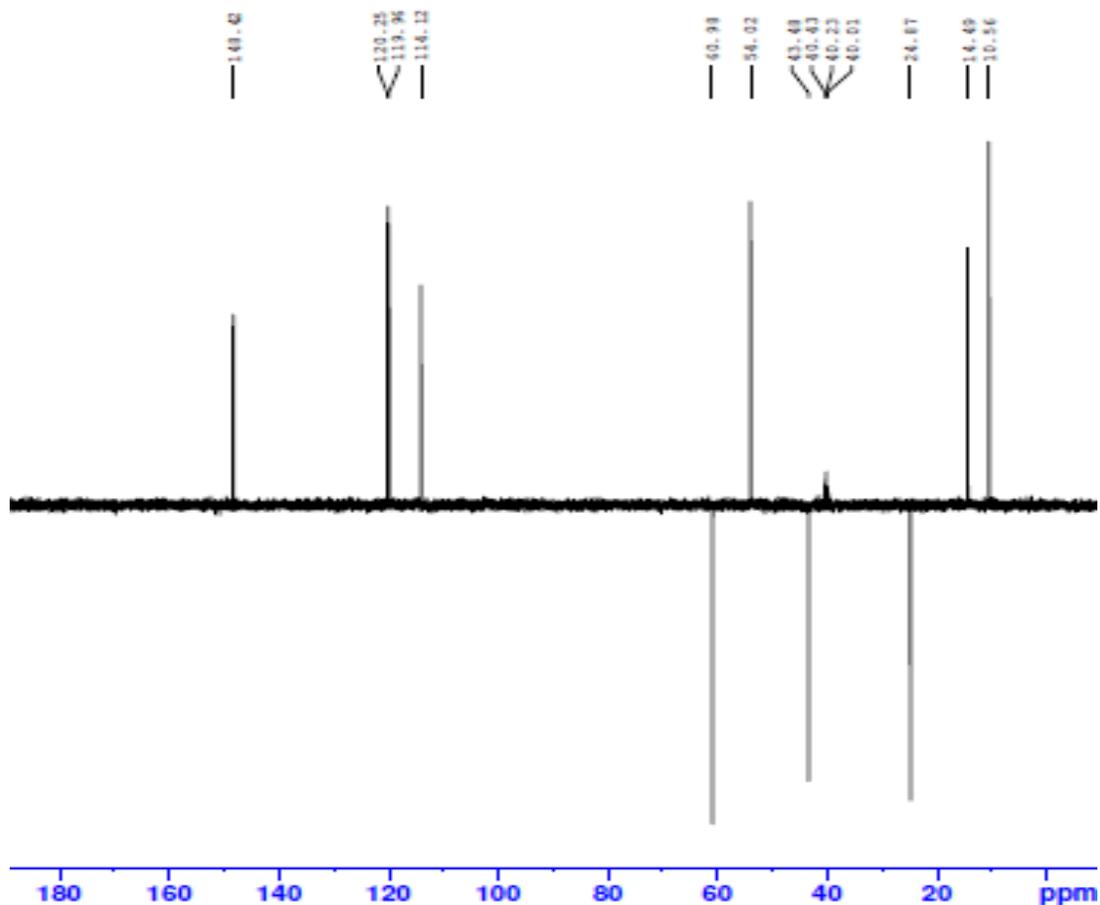
S50. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(4-methylbenzylidene)-2,4dioxothiazolidin-3-yl) acetamido) butanoate(13ciii)

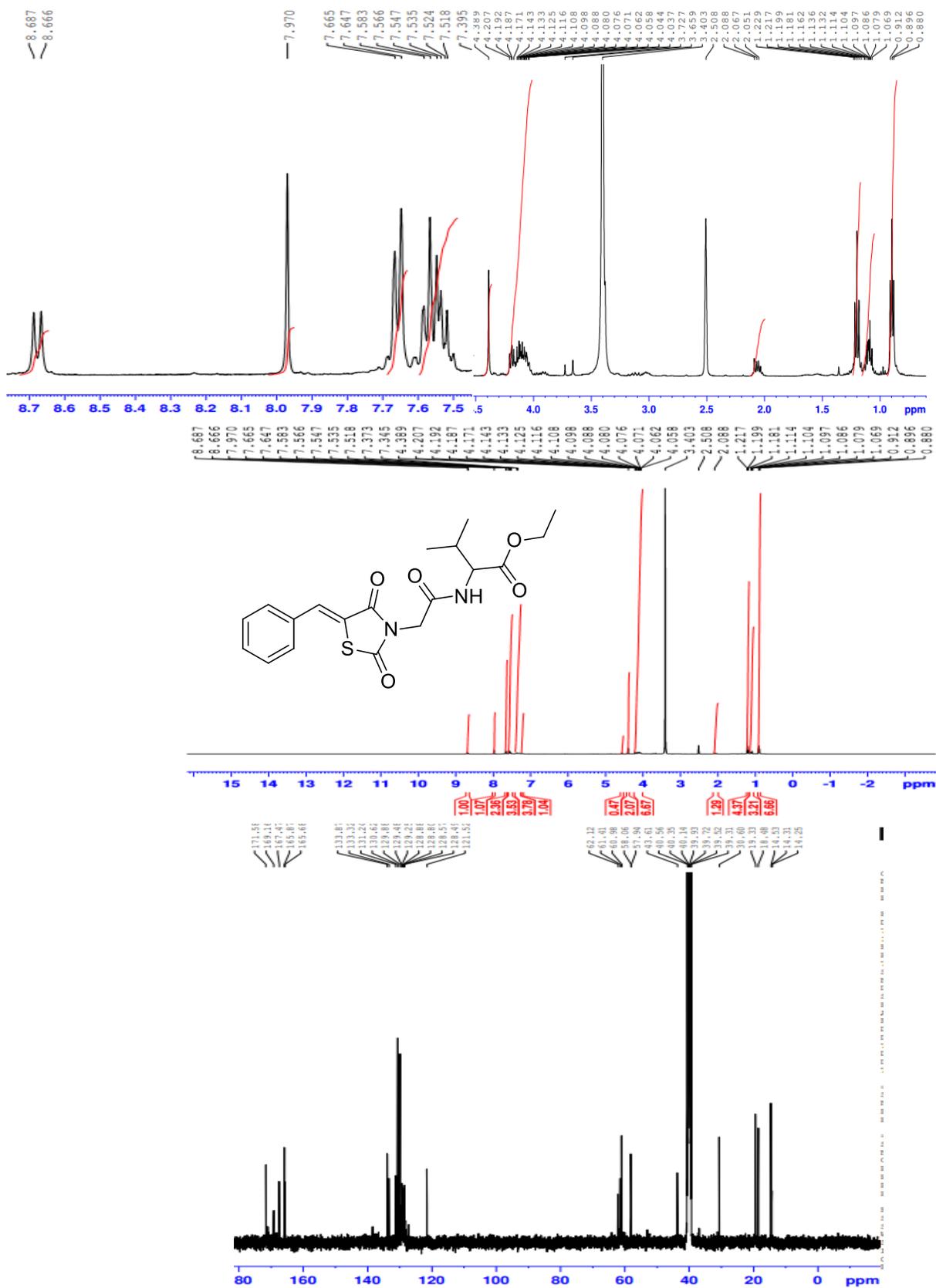


S51. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-(4-hydroxybenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)butanoate (**13civ**)

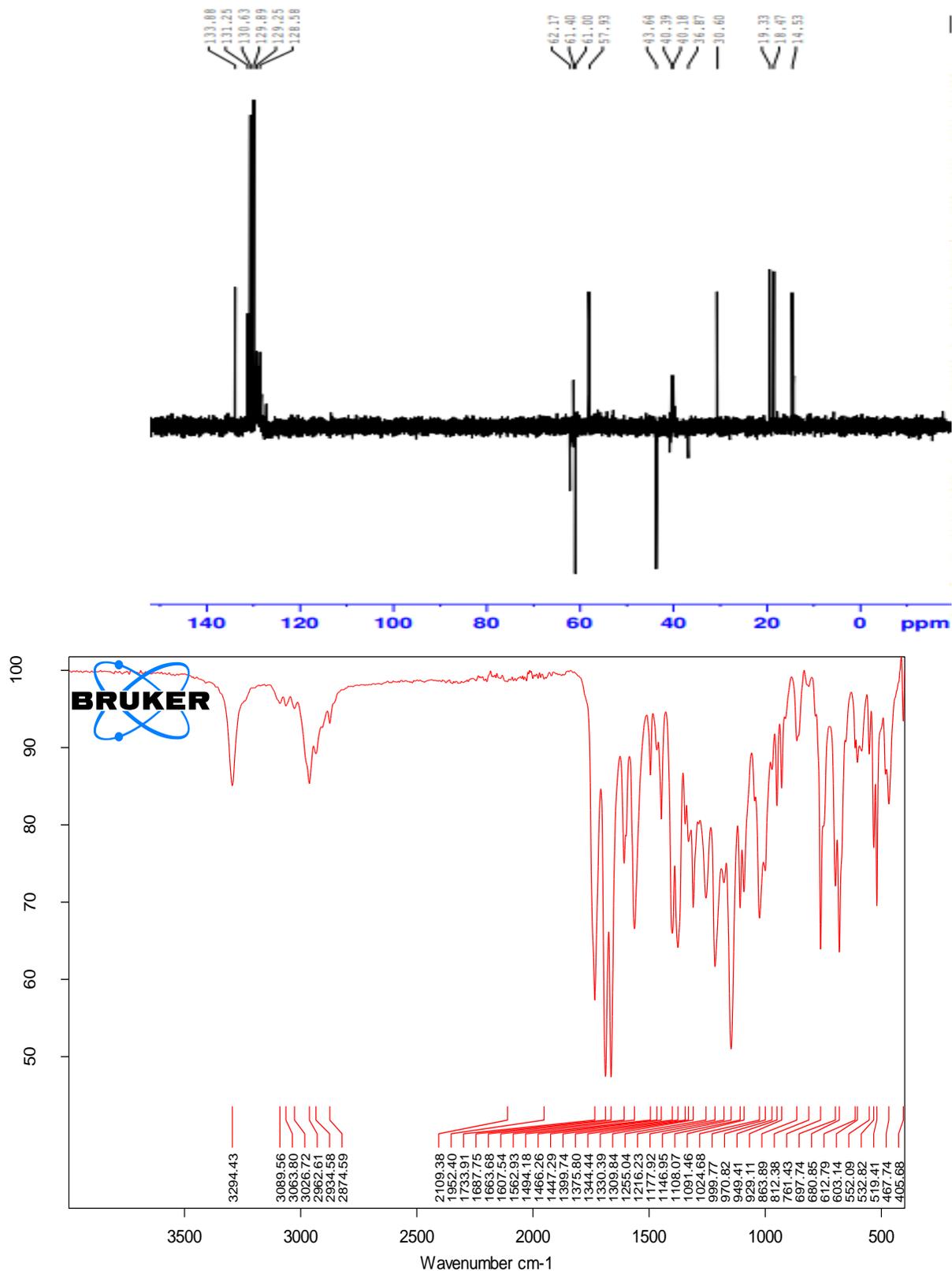
S52. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(4-hydroxybenzylidene)-2,4-dioxothiazolidin-3-yl) acetamido) butanoate(**13civ**)

S53. ^1H and ^{13}C NMR spectra Ethyl 2-(2-(5-(furan-2-ylmethylene)-2,4-dioxothiazolidin-3-yl)acetamido)butanoate (**13cv**)

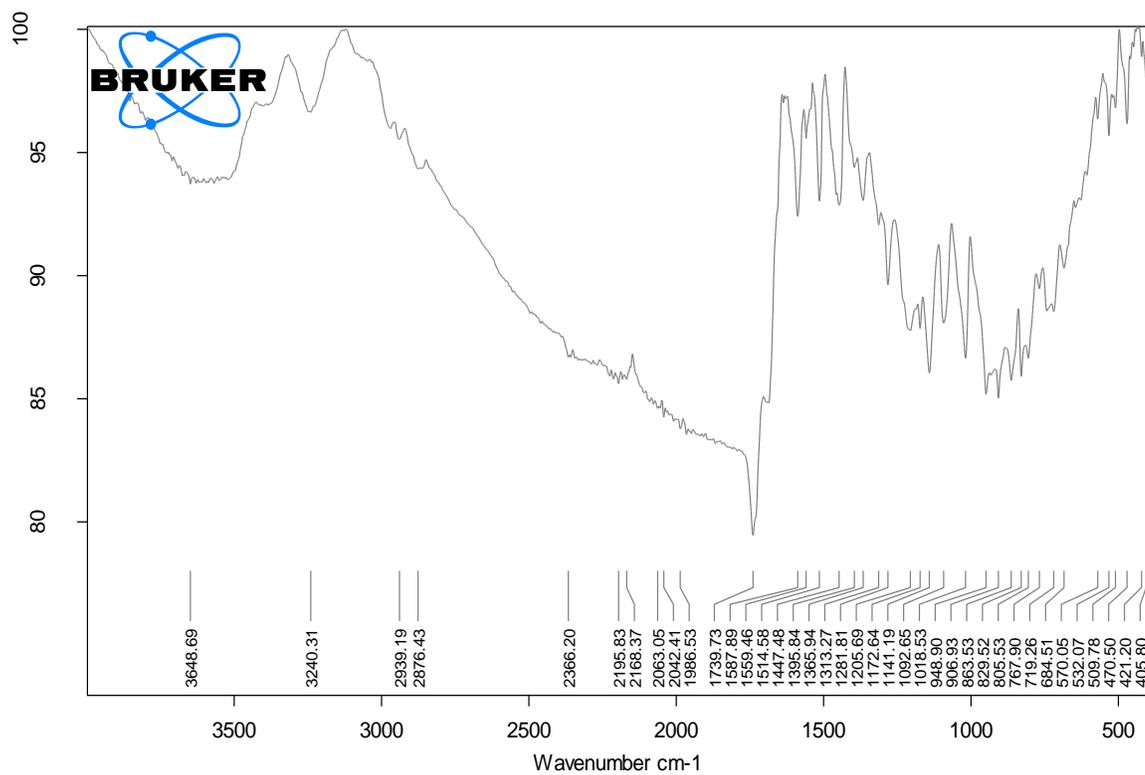
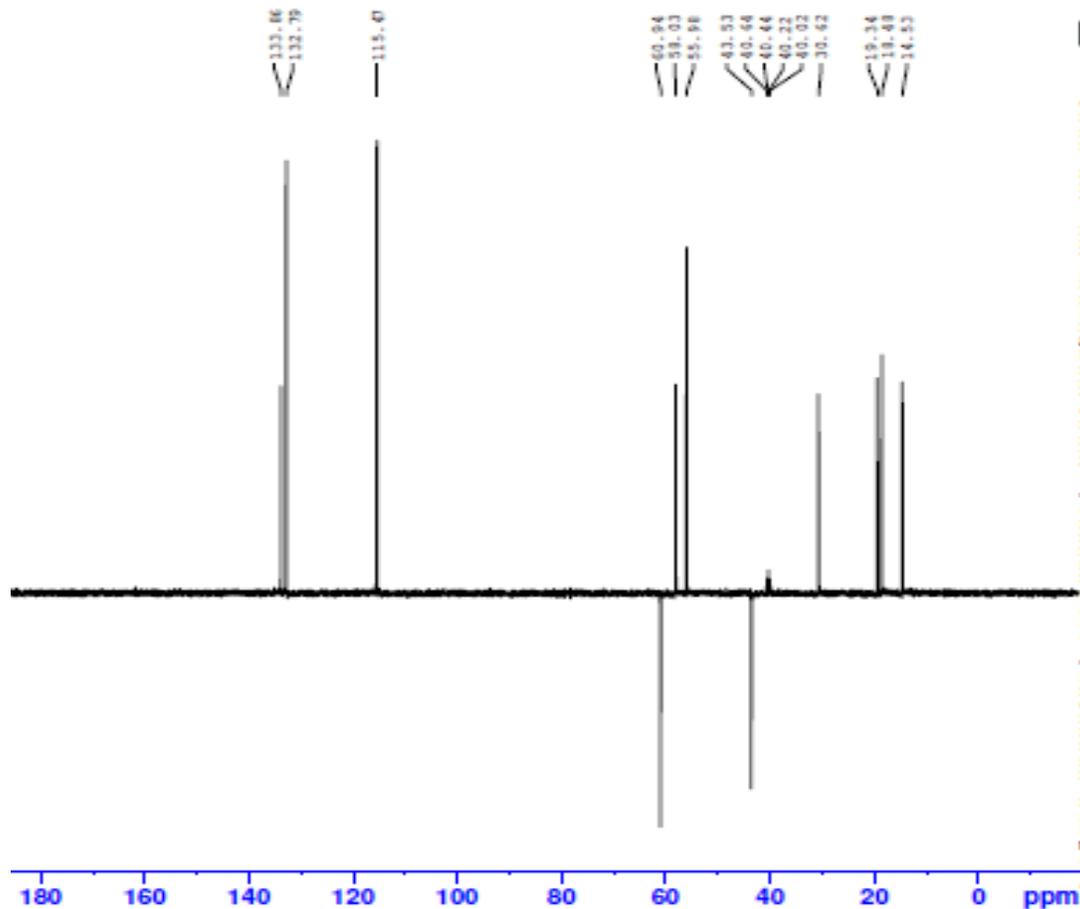
S54. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(furan-2-ylmethylene)-2,4-dioxothiazolidin-3-yl)acetamido)butanoate (**13cv**)

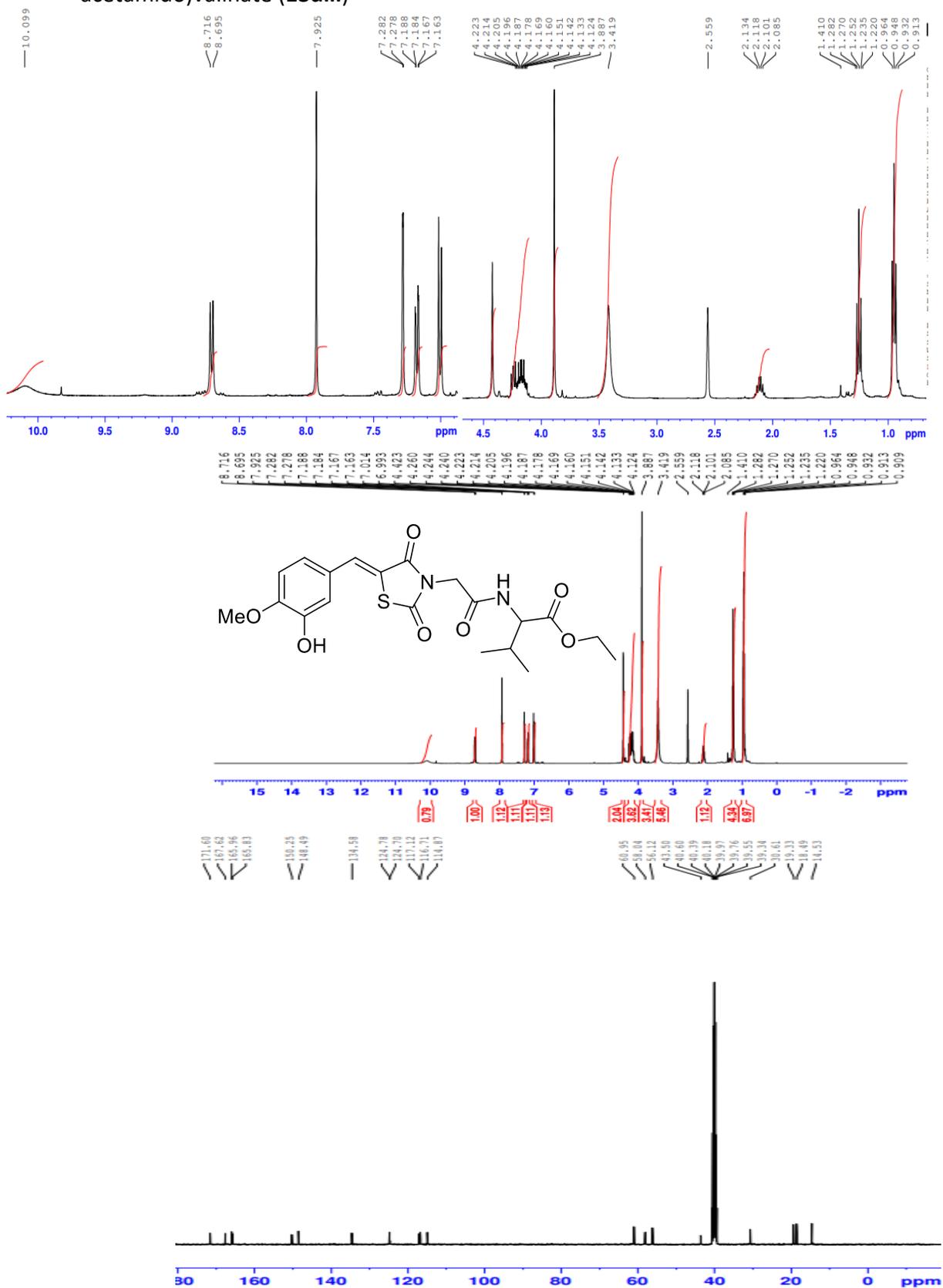
S55. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-benzylidene-2,4-dioxothiazolidin-3-yl) acetamido)valinate (13di)

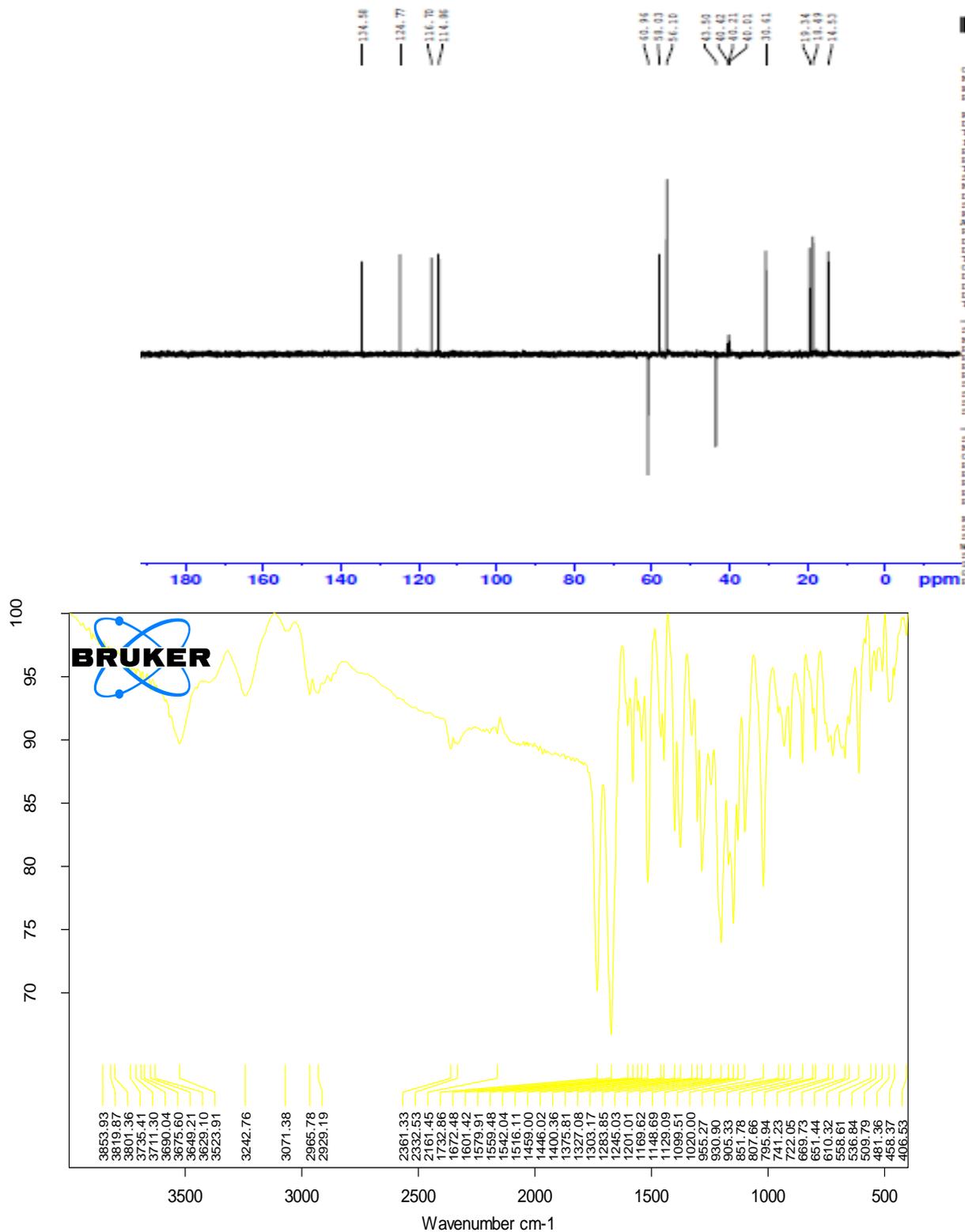
S56. DEPT-135 and IR spectra of Ethyl 2-(2-(5-benzylidene-2,4-dioxothiazolidin-3-yl) acetamido)valinate (13di)

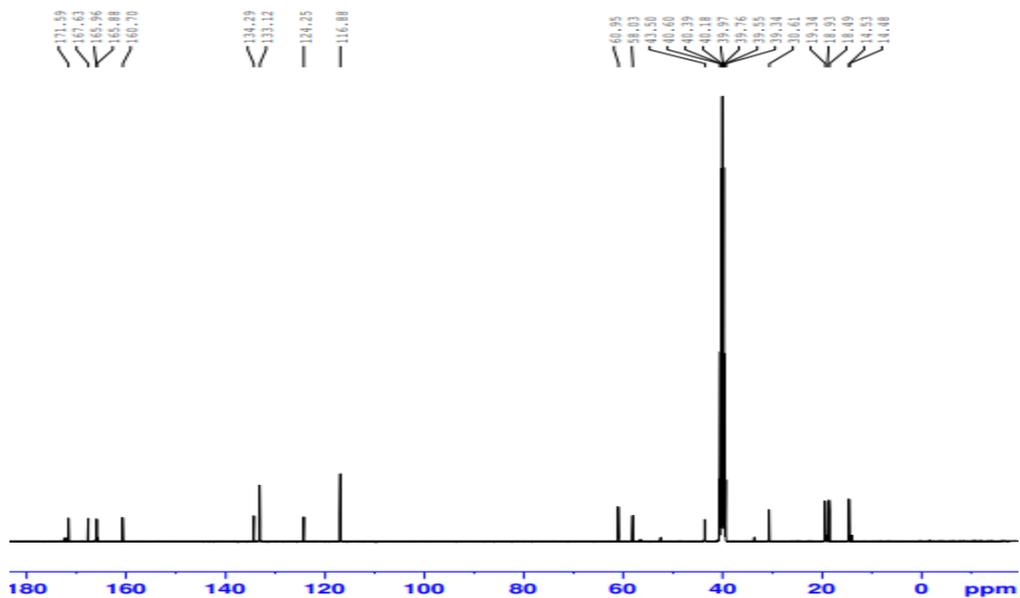
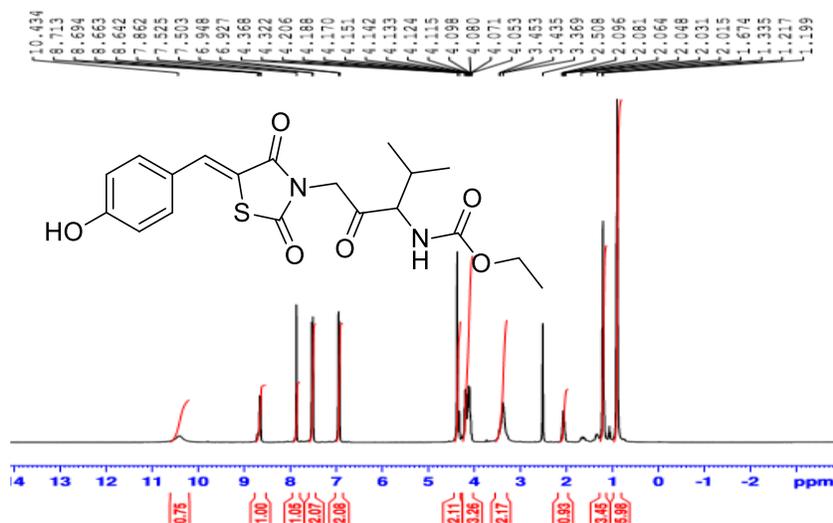
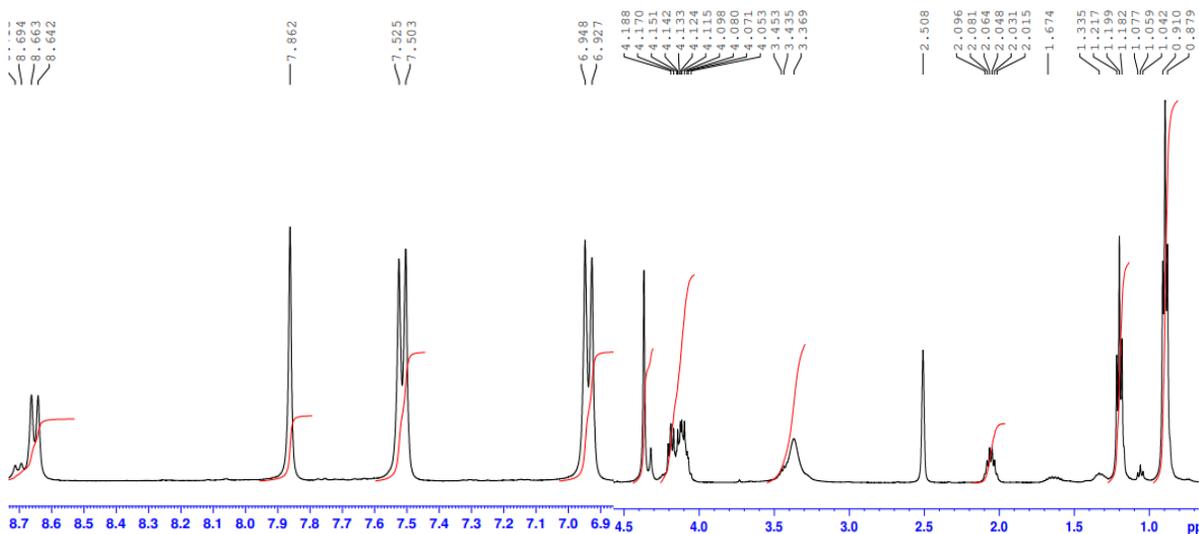


S58. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(4-methoxybenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)valinate(**13dii**)

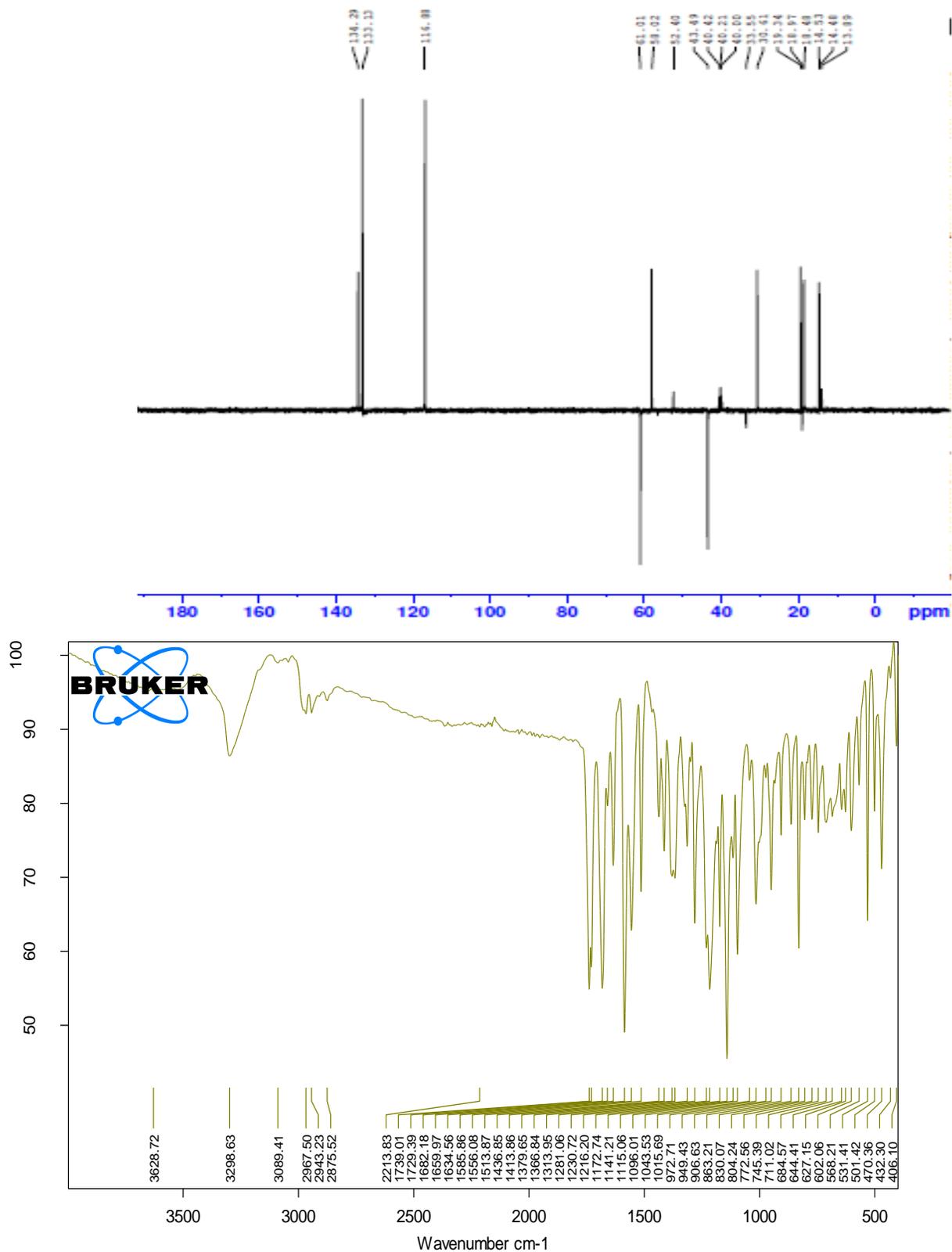


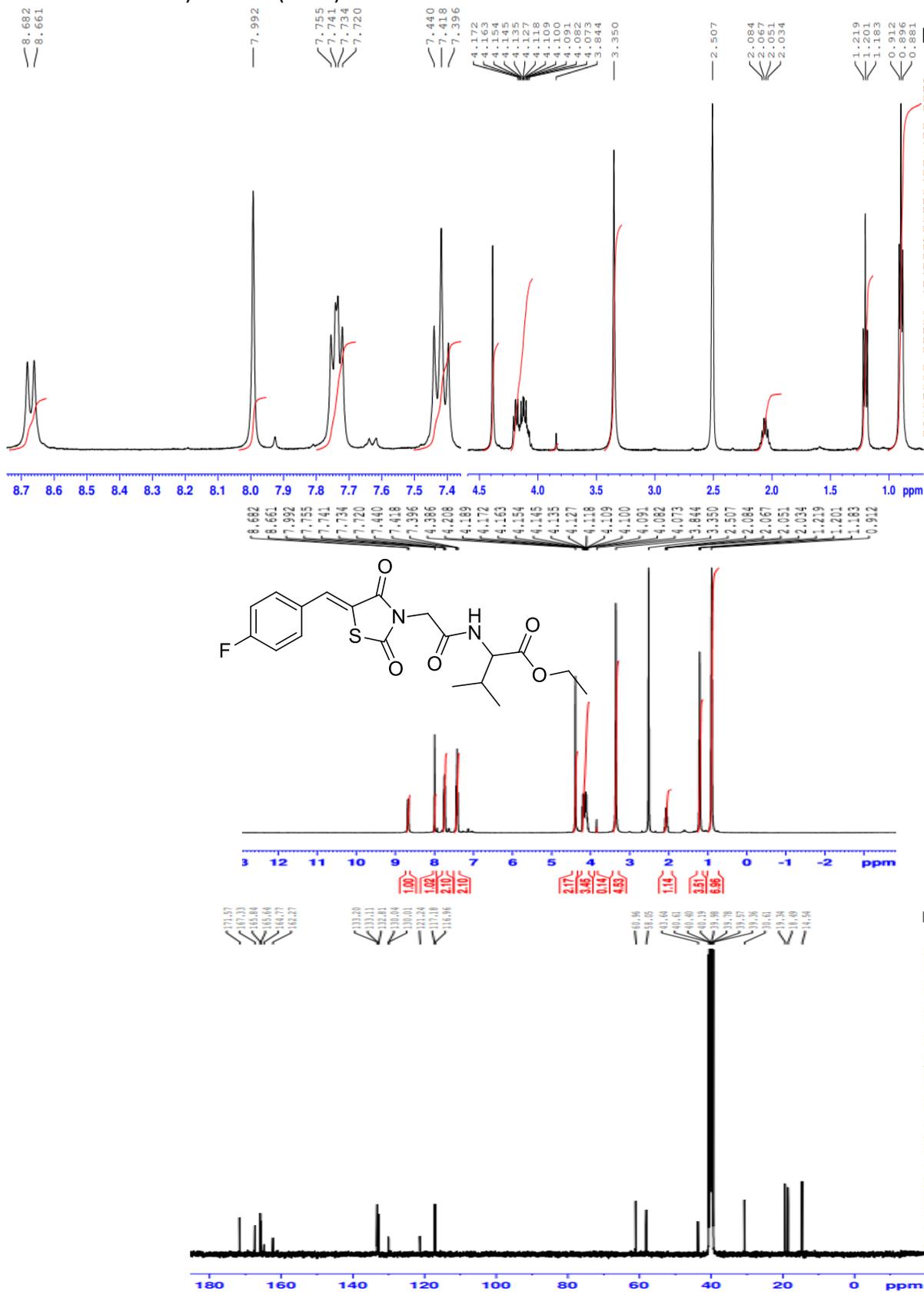
S59. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-(4-methoxy-3-hydroxybenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)valinate (**13diii**)

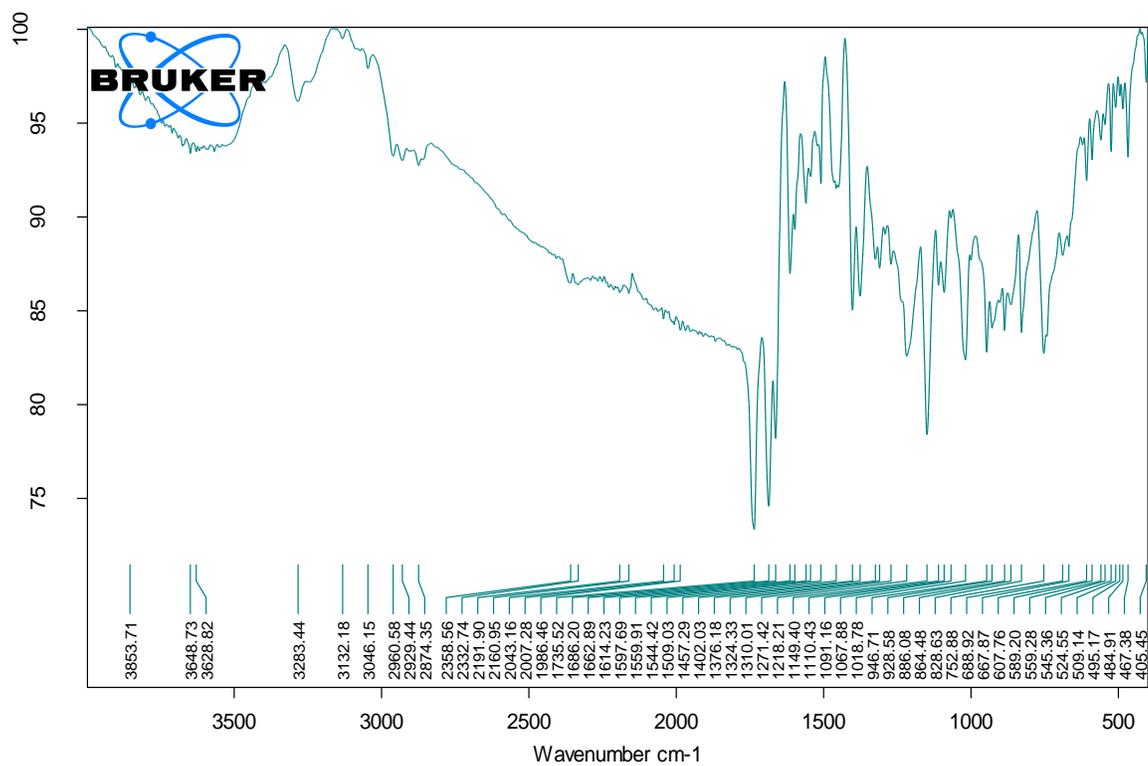
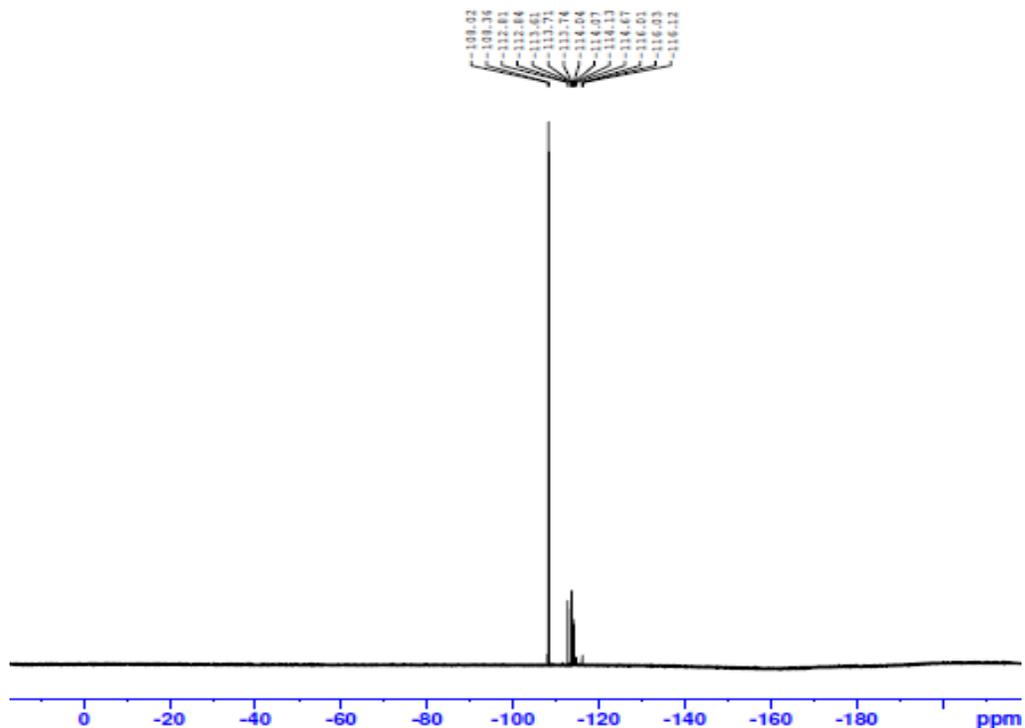
S60. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(4-methoxy-3-hydroxybenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)valinate (**13diii**)

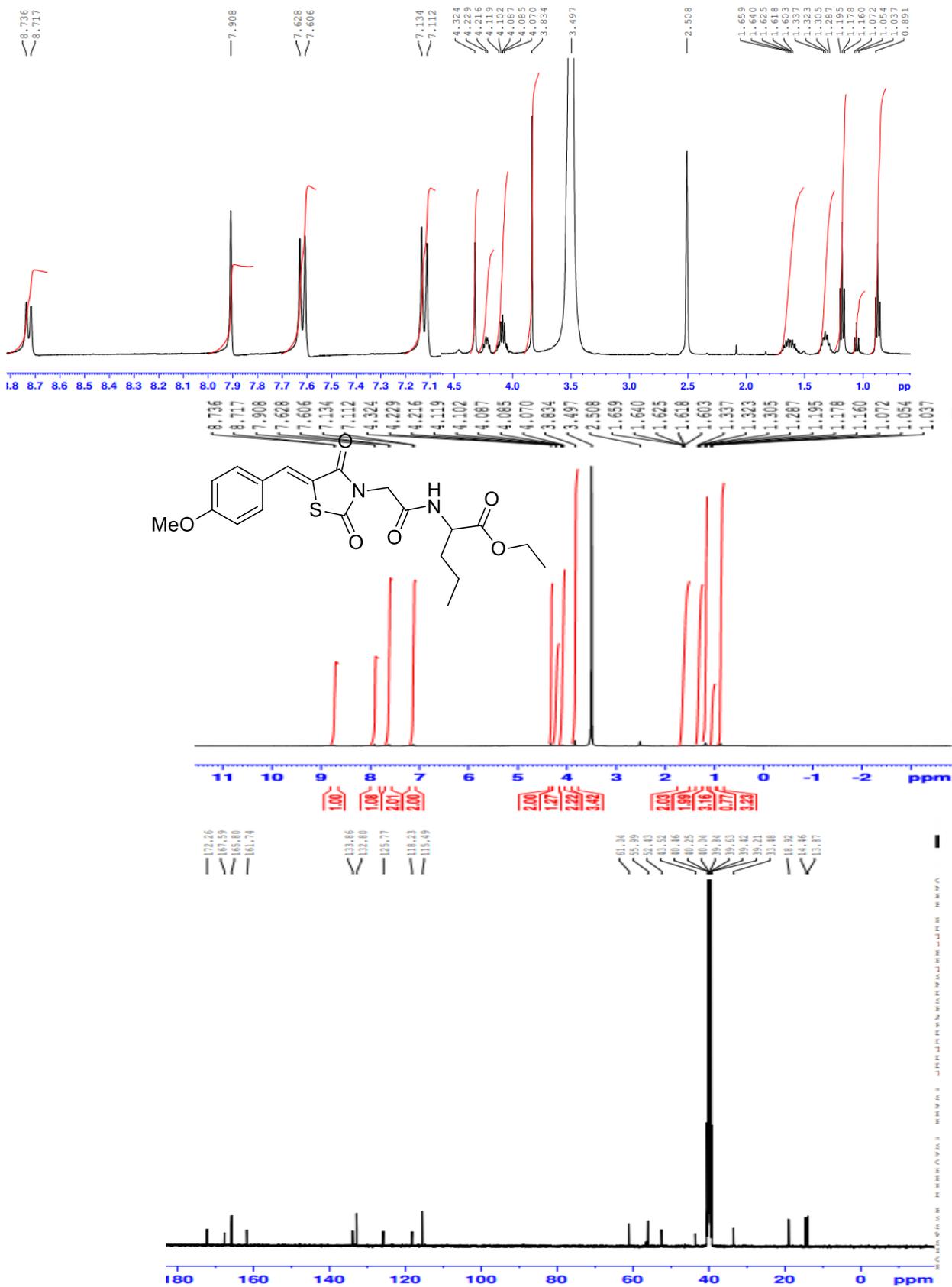
S61. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-(4-hydroxybenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)valinate (**13div**)

S62. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(4-hydroxybenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)valinate (**13div**)

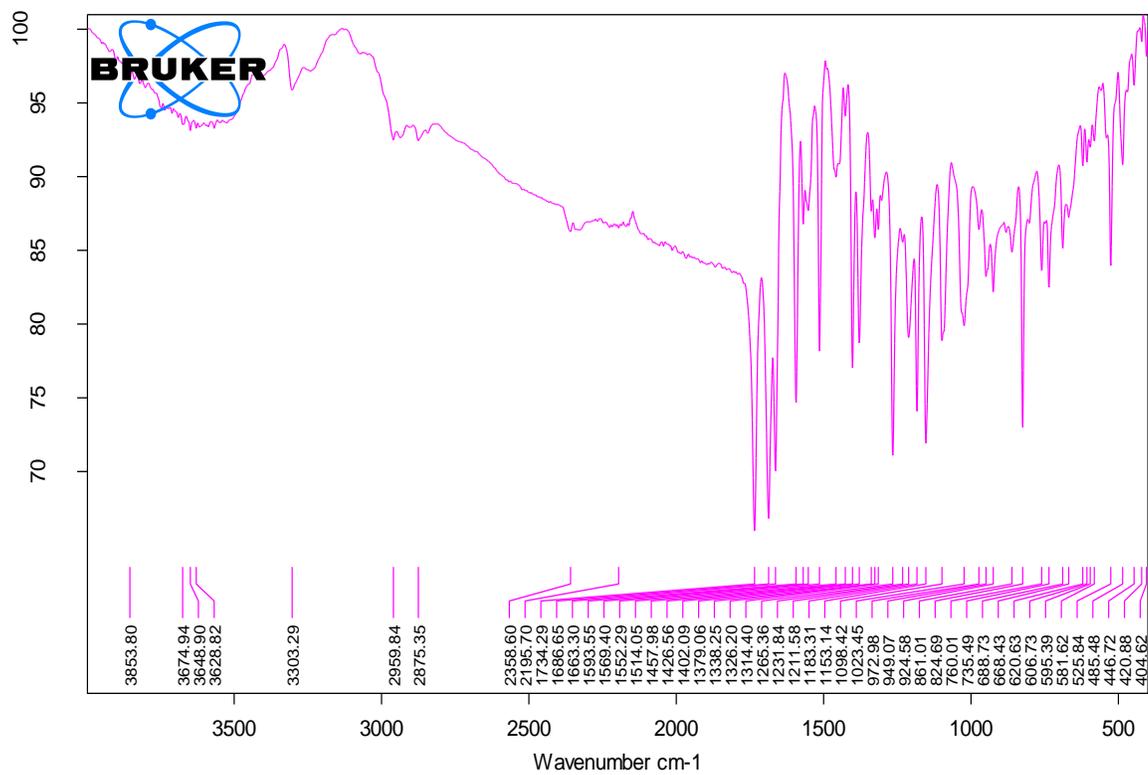
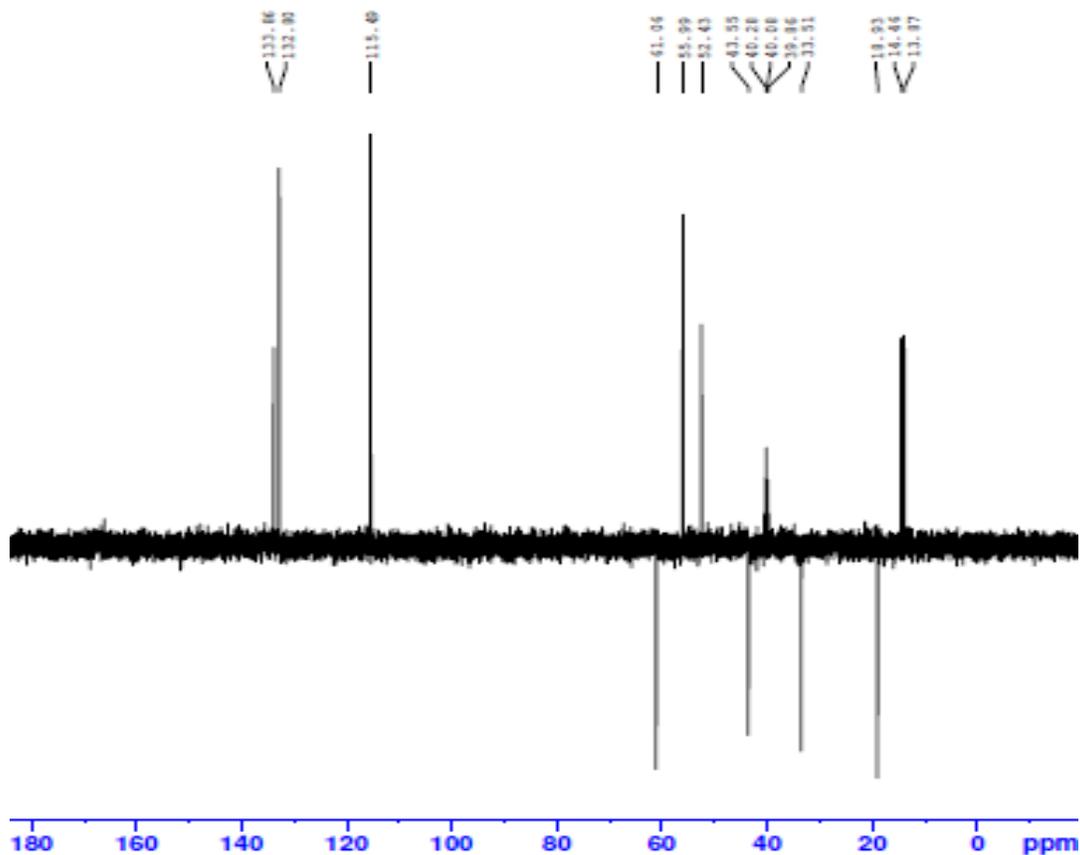


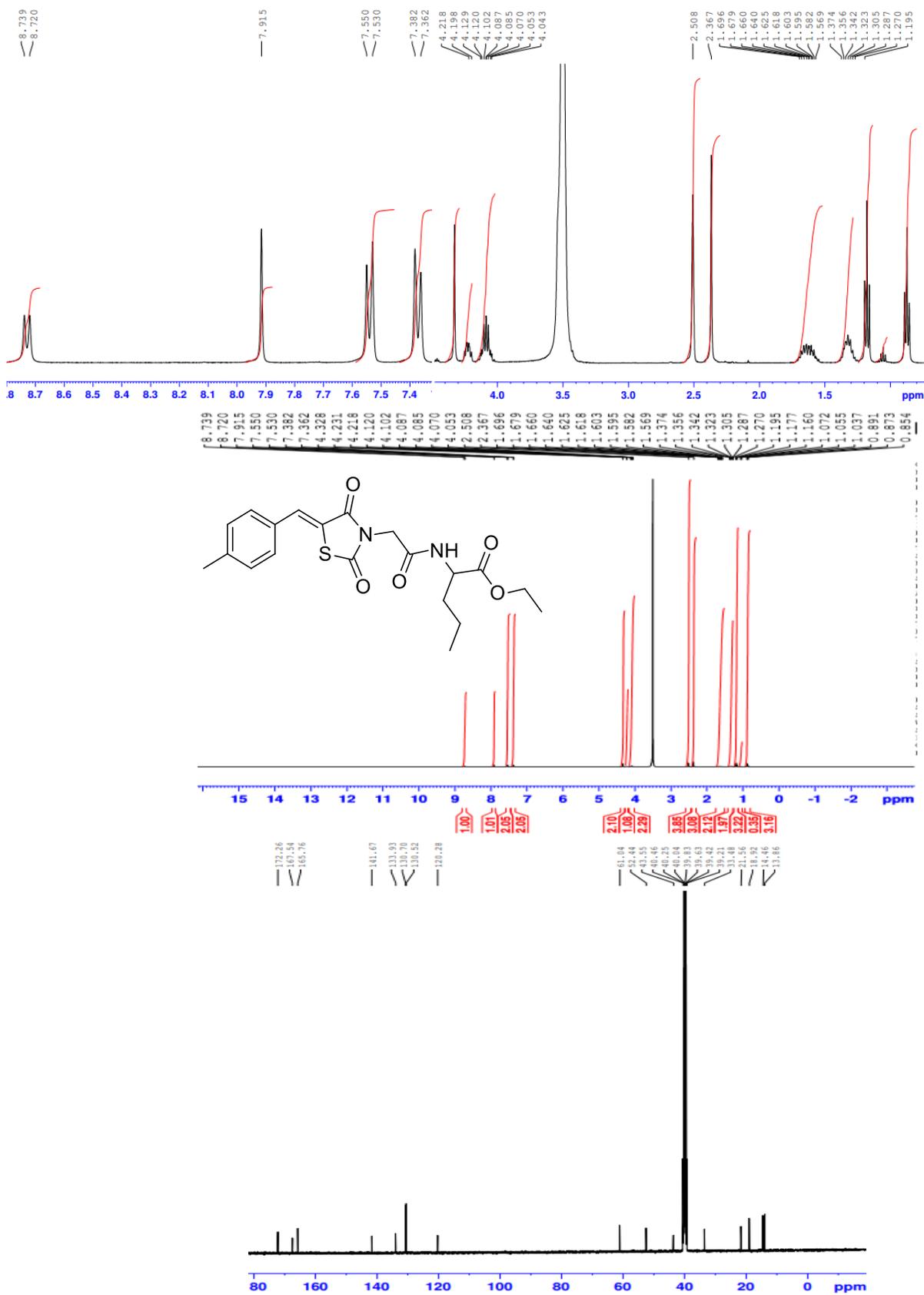
S63. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-(4-fluorobenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)valinate (**13dv**)S64. ^{19}F and IR spectra of Ethyl 2-(2-(5-(4-fluorobenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)valinate (**13dv**)



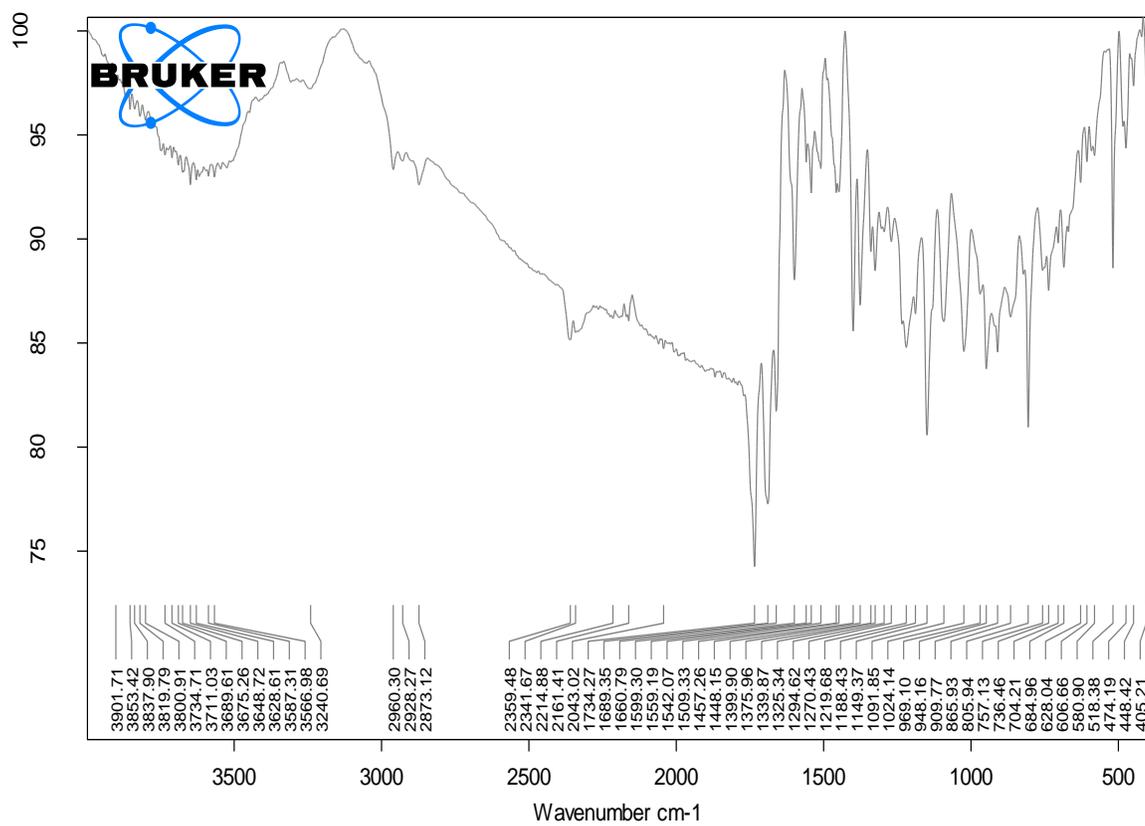
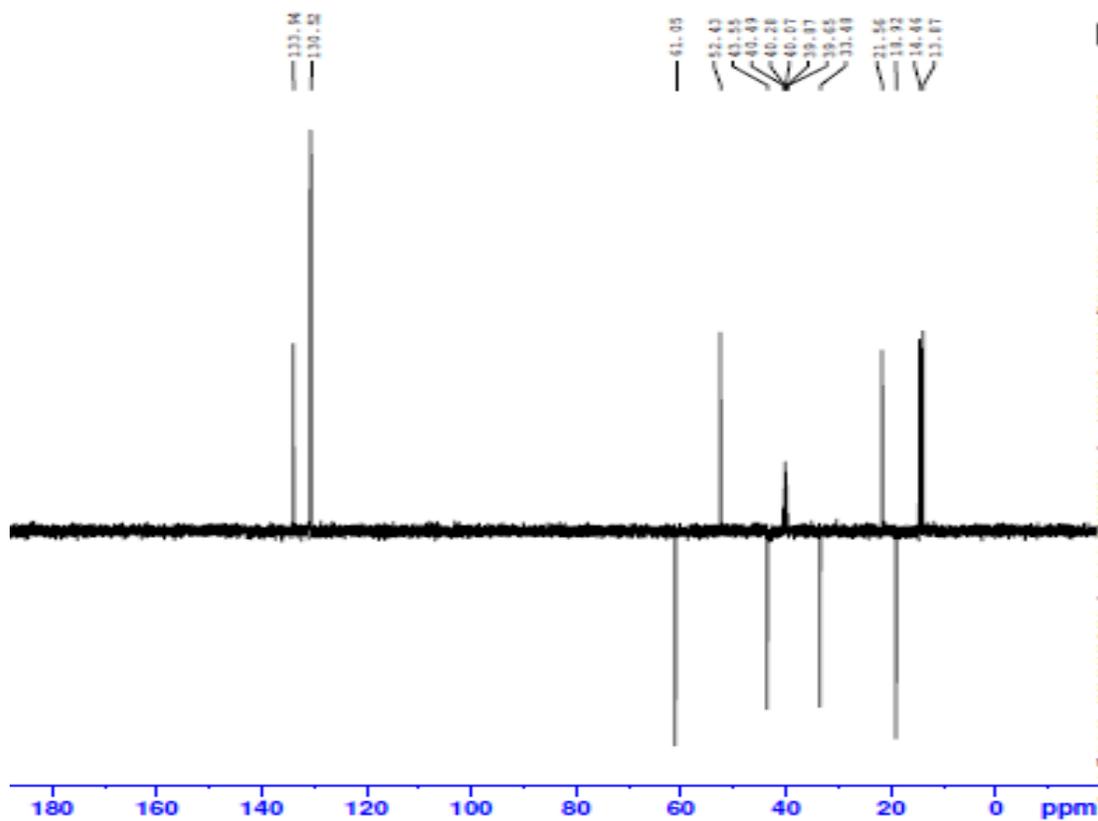
S65. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-(4-methoxybenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)norvalinate(**13ei**)

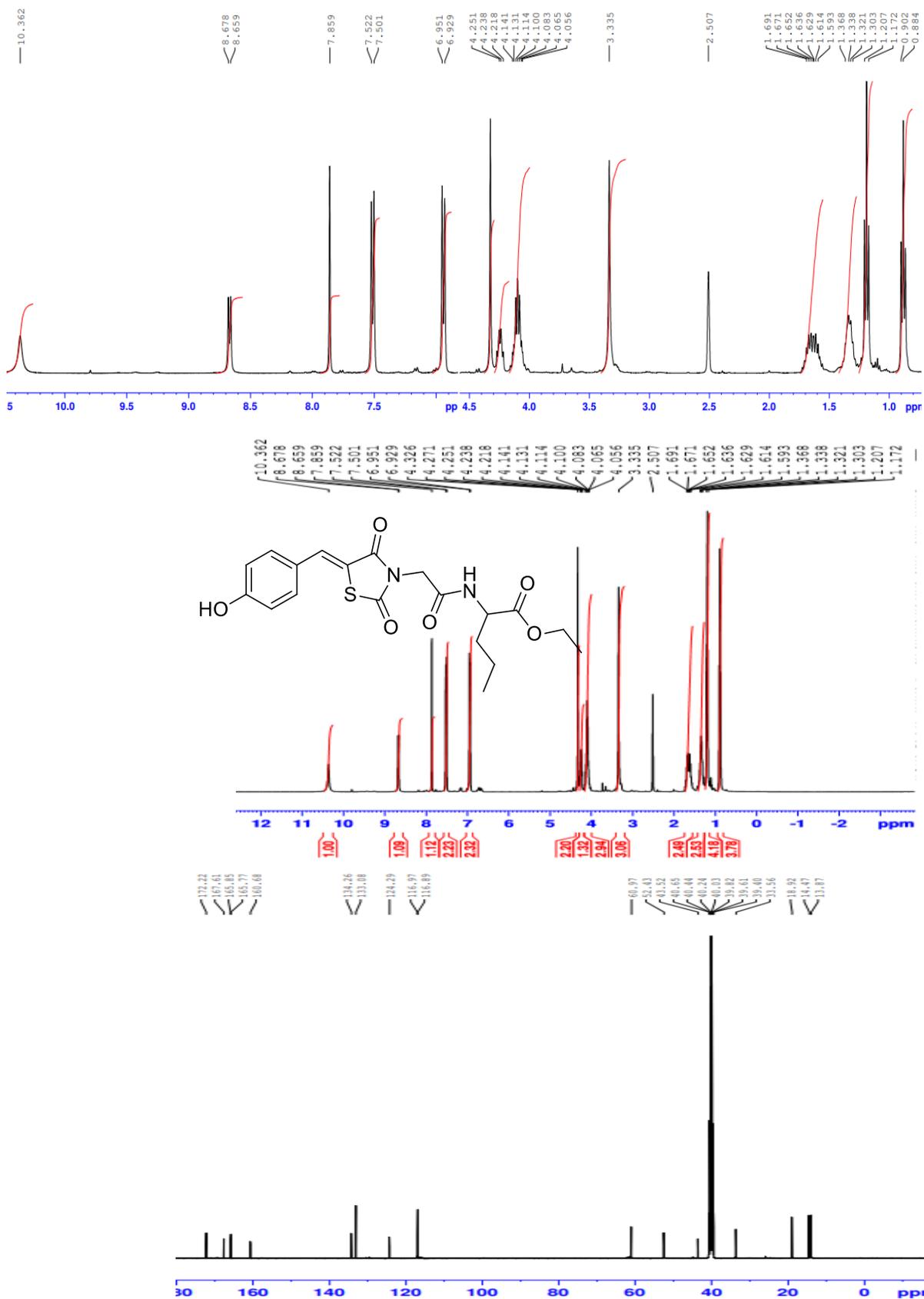
S66. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(4-methoxybenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)norvalinate(**13ei**)



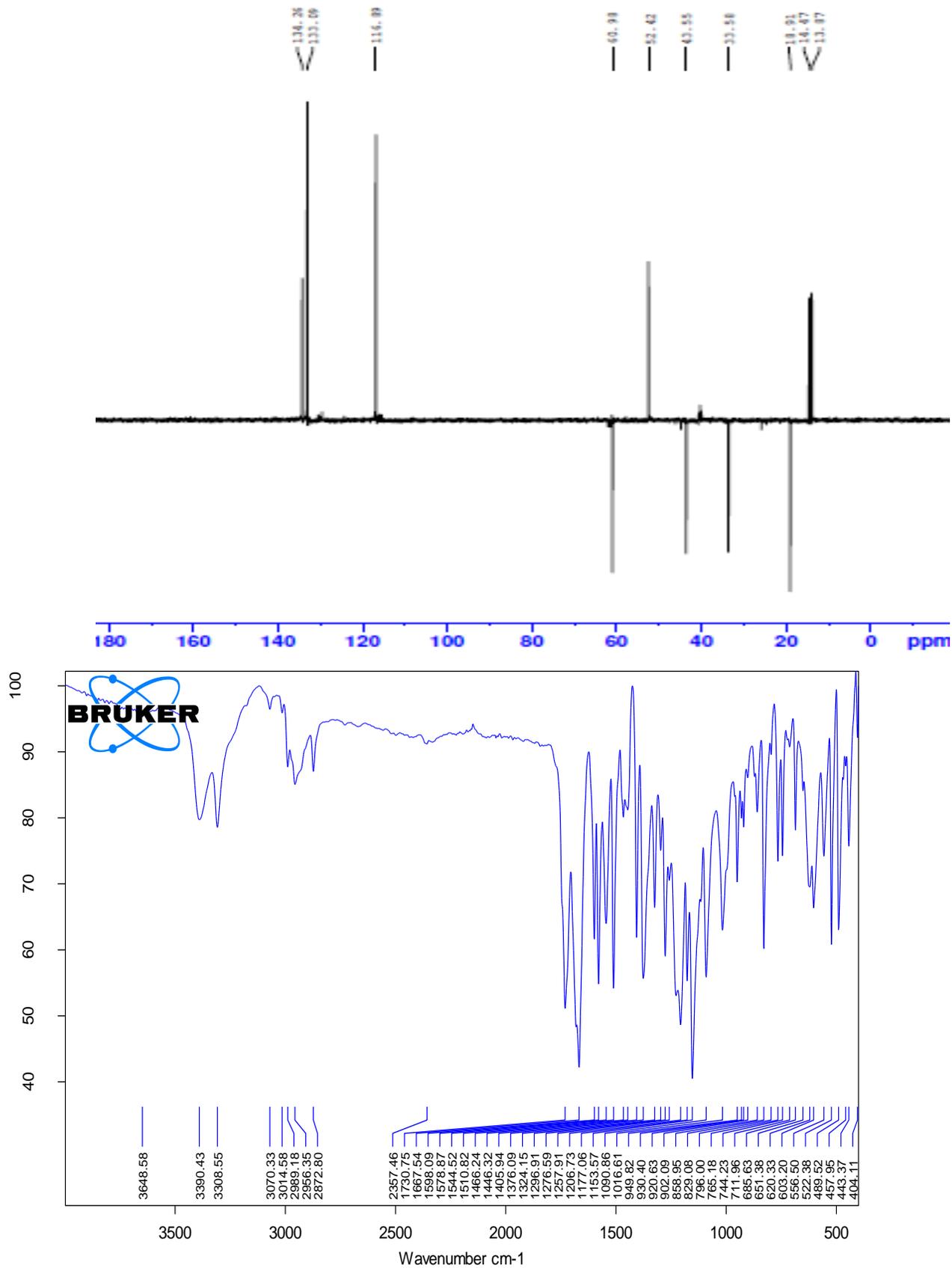
S67. ¹H and ¹³C NMR spectra of Ethyl 2-(2-(5-(4-methylbenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)norvalinate(**13eii**)

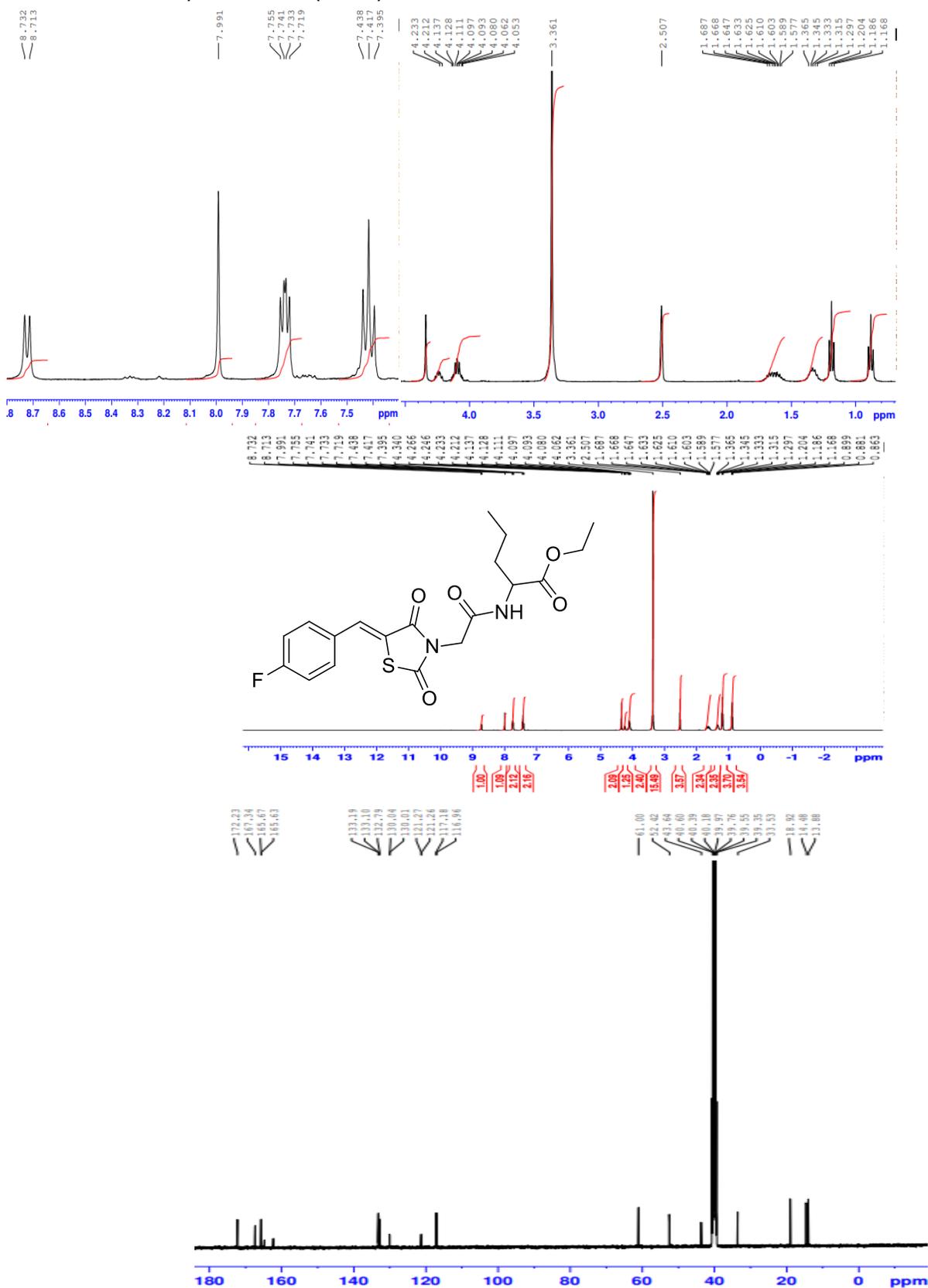
S68. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(4-methylbenzylidene)-2,4dioxothiazolidin-3-yl)acetamido)norvalinate(**13eii**)

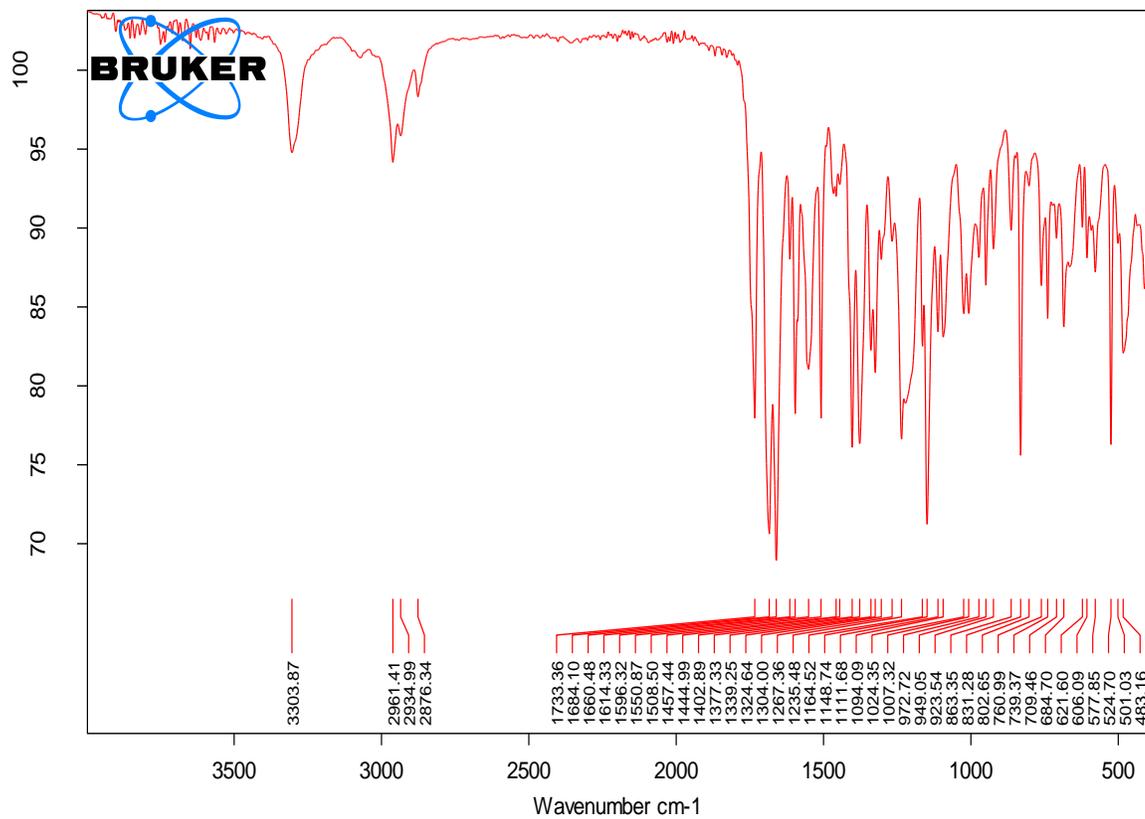
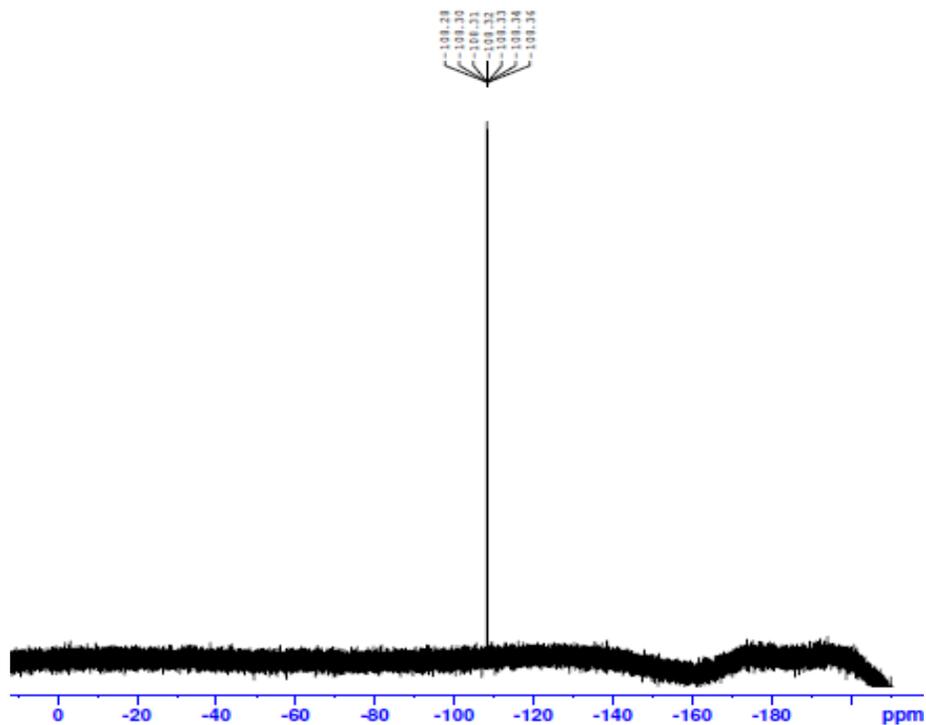


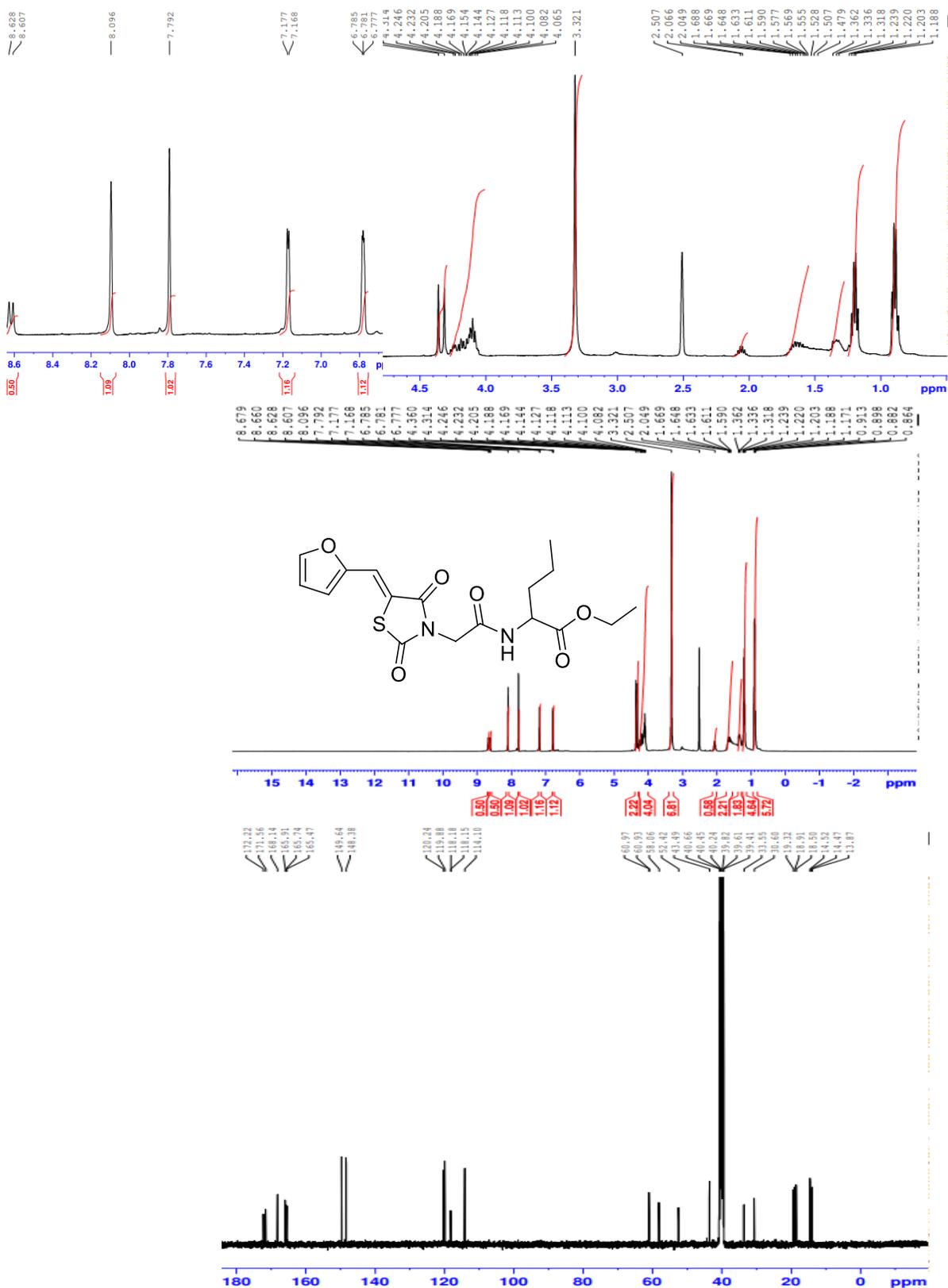
S69. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-(4-hydroxybenzylidene)-2,4dioxothiazolidin-3-yl)acetamido)norvalinate (**13eiii**)

S70. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(4-hydroxybenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)norvalinate (**13eiii**)



S71. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-(4-fluorobenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)norvalinate (**13eiv**)S72. ^{19}F and IR spectra of Ethyl 2-(2-(5-(4-fluorobenzylidene)-2,4-dioxothiazolidin-3-yl)acetamido)norvalinate (**13eiv**)



S73. ^1H and ^{13}C NMR spectra of Ethyl 2-(2-(5-(furan-2-ylmethylene)-2,4-dioxothiazolidin-3-yl)acetamido)norvalinate (**13ev**)

S74. DEPT-135 and IR spectra of Ethyl 2-(2-(5-(furan-2-ylmethylene)-2,4-dioxothiazolidin-3-yl)acetamido)norvalinate (**13ev**)